

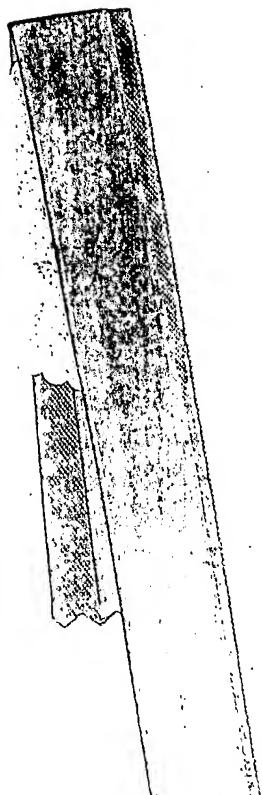
分 冊

Separate Volume

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分冊番号 4/9



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出証番号 出証特2004-3059661

Cys Gln Asp Gln Ser Ile Phe His Ser Lys Ile Lys Gln Asn Ser Phe
 20 25 30
 Pro Val Ile Thr Ser Tyr Pro Ser Val Ser Lys Leu Pro Leu Ser Phe
 35 40 45
 Leu His Arg Ala His Phe Lys Thr Cys Phe Ala Ala Phe Ser Leu Cys
 50 55 60
 Val Leu Val Asp Ala Asn Leu Pro Pro Ala Leu Arg Lys Ala Glu Lys
 65 70 75 80
 His Glu Arg Pro Gln Glu Ala Pro Gly Leu Gly Glu Pro Gln Ala Gly
 85 90 95
 Thr Leu Ala Gly Gln Trp Leu Gly Ser Arg Ala Ala Gly Thr Leu Leu
 100 105 110
 Ala Gly Arg Gly Ser Cys Ser Arg Glu Ala Gln Arg Pro His Gly Leu
 115 120 125
 Ala Trp Thr Glu Met Glu Asn Arg Trp Glu Lys Arg Met Gly Ile Ser
 130 135 140

<210> 3306

<211> 140

<212> PRT

<213> Homo sapiens

<400> 3306

Met Ala Ala Glu Ala Lys Gly Trp Gly Cys Arg Leu Pro Ser Cys Cys
 1 5 10 15
 Pro Cys Pro Cys Lys Thr Gly Asp Pro Gly Pro Gly Asn Arg Arg Arg
 20 25 30
 Ala Thr Pro Met Trp Met Pro Lys Gly Pro Thr Gln Glu Arg Cys Arg

35	40	45
Pro Tyr Pro Pro Pro Leu Pro Gly Met Ile His Ala Pro Ala Arg Glu		
50	55	60
Gly Lys Asn Leu Pro Ala Pro Leu Pro Leu Gly Ser Ser Gly Leu Tyr		
65	70	75
Pro Gly Lys Lys Glu Val Ala Asp Ser Val Thr Glu Ile Arg Leu Arg		
85	90	95
Asp Pro Leu Ser Ala Pro Ala Leu Arg Leu Gly Arg Ser Gln Leu Cys		
100	105	110
Pro Val Trp Val Arg His Pro Val Pro Leu Cys Cys Phe Ser Ala Ser		
115	120	125
Asp Leu Gly Leu Phe Leu Ser Pro Gly Ser His Pro		
130	135	140

<210> 3307

<211> 576

<212> PRT

<213> Homo sapiens

<400> 3307

Met Glu Glu Lys Asn Gln Ala Val Cys His Asp Tyr Asp Ile His Phe		
1	5	10
Tyr Pro Thr Phe Arg Tyr Phe Lys Ala Phe Thr Lys Glu Phe Thr Thr		
20	25	30
Gly Glu Asn Phe Lys Gly Pro Asp Arg Glu Leu Arg Thr Val Arg Gln		
35	40	45
Thr Met Ile Asp Phe Leu Gln Asn His Thr Glu Gly Ser Arg Pro Pro		
50	55	60

Ala Cys Pro Arg Leu Asp Pro Ile Gln Pro Ser Asp Val Leu Ser Leu
 65 70 75 80
 Leu Asp Lys Arg Gly Ser His Tyr Val Ala Ile Val Phe Glu Ser Asn
 85 90 95
 Ser Ser Tyr Leu Gly Arg Glu Val Ile Leu Asp Leu Ile Pro Tyr Glu
 100 105 110
 Ser Ile Val Val Thr Arg Ala Leu Asp Gly Asp Lys Ala Phe Leu Glu
 115 120 125
 Lys Leu Gly Val Ser Ser Val Pro Ser Cys Tyr Leu Ile Tyr Pro Asn
 130 135 140
 Gly Ser His Gly Leu Ile Asn Val Val Lys Pro Leu Arg Ala Phe Phe
 145 150 155 160
 Ser Ser Tyr Leu Lys Ser Leu Pro Asp Val Arg Lys Lys Ser Leu Pro
 165 170 175
 Leu Pro Glu Lys Pro His Lys Glu Glu Asn Ser Glu Ile Val Val Trp
 180 185 190
 Arg Glu Phe Asp Lys Ser Lys Leu Tyr Thr Val Asp Leu Glu Ser Gly
 195 200 205
 Leu His Tyr Leu Leu Arg Val Glu Leu Ala Ala His Lys Ser Leu Ala
 210 215 220
 Gly Ala Glu Leu Lys Thr Leu Lys Asp Phe Val Thr Val Leu Ala Lys
 225 230 235 240
 Leu Phe Pro Gly Arg Pro Pro Val Lys Lys Leu Leu Glu Met Leu Gln
 245 250 255
 Glu Trp Leu Ala Ser Leu Pro Leu Asp Arg Ile Pro Tyr Asn Ala Val
 260 265 270
 Leu Asp Leu Val Asn Asn Lys Met Arg Ile Ser Gly Ile Phe Leu Thr
 275 280 285
 Asn His Ile Lys Trp Val Gly Cys Gln Gly Ser Arg Ser Glu Leu Arg

290	295	300
Gly Tyr Pro Cys Ser Leu Trp Lys Leu Phe His Thr Leu Thr Val Glu		
305	310	315
Ala Ser Thr His Pro Asp Ala Leu Val Gly Thr Gly Phe Glu Asp Asp		
325	330	335
Pro Gln Ala Val Leu Gln Thr Met Arg Arg Tyr Val His Thr Phe Phe		
340	345	350
Gly Cys Lys Glu Cys Gly Glu His Phe Glu Glu Met Ala Lys Glu Ser		
355	360	365
Met Asp Ser Val Lys Thr Pro Asp Gln Ala Ile Leu Trp Leu Trp Lys		
370	375	380
Lys His Asn Met Val Asn Gly Arg Leu Ala Gly His Leu Ser Glu Asp		
385	390	395
Pro Arg Phe Pro Lys Leu Gln Trp Pro Thr Pro Asp Leu Cys Pro Ala		
405	410	415
Cys His Glu Glu Ile Lys Gly Leu Ala Ser Trp Asp Glu Gly His Val		
420	425	430
Leu Thr Phe Leu Lys Gln His Tyr Gly Arg Asp Asn Leu Leu Asp Thr		
435	440	445
Tyr Ser Ala Asp Gln Gly Asp Ser Ser Glu Gly Gly Thr Leu Ala Arg		
450	455	460
Gly Glu Glu Glu Glu Lys Arg Leu Thr Pro Pro Glu Val Ser His Gly		
465	470	475
Asp Arg Asp Thr Gln Ser Val Arg Pro Pro Gly Ala Leu Gly Pro Arg		
485	490	495
Pro Ala Leu Pro Glu Ser Leu His His Ser Leu Asp Gly Lys Leu Gln		
500	505	510
Ser Leu Asp Gly Pro Gly Ala His Lys Glu Val Gly Gly Ala Ala Pro		
515	520	525

Phe Leu Gly Val Asp Phe Ser Ser Leu Asp Met Ser Leu Cys Val Val
 530 535 540
 Leu Tyr Val Ala Ser Ser Leu Phe Leu Met Val Met Tyr Phe Phe Phe
 545 550 555 560
 Arg Val Arg Ser Arg Arg Trp Lys Val Lys His His His Pro Ala Val
 565 570 575

<210> 3308

<211> 845

<212> PRT

<213> Homo sapiens

<400> 3308

Met Glu Lys Asn Ile Asn Leu Arg Asn Cys Gln Thr Leu Asn Thr Tyr
 1 5 10 15
 Val Met Leu Thr His Leu Arg Met Pro Ala Pro Ile Arg Leu Arg Glu
 20 25 30
 Leu Ile Arg Thr Ile Arg Thr Ala Arg Thr Gln Ala Glu Glu Arg Glu
 35 40 45
 Met Ile Gln Lys Glu Cys Ala Ala Ile Arg Ser Ser Phe Arg Glu Glu
 50 55 60
 Asp Asn Thr Tyr Arg Cys Arg Asn Val Ala Lys Leu Leu Tyr Met His
 65 70 75 80
 Met Leu Gly Tyr Pro Ala His Phe Gly Gln Leu Glu Cys Leu Lys Leu
 85 90 95
 Ile Ala Ser Gln Lys Phe Thr Asp Lys Arg Ile Gly Tyr Leu Gly Ala
 100 105 110
 Met Leu Leu Leu Asp Glu Arg Gln Asp Val His Leu Leu Met Thr Asn

115	120	125
Cys Ile Lys Asn Asp Leu Asn His Ser Thr Gln Phe Val Gln Gly Leu		
130	135	140
Ala Leu Cys Thr Leu Gly Cys Met Gly Ser Ser Glu Met Cys Arg Asp		
145	150	155
Leu Ala Gly Glu Val Glu Lys Leu Leu Lys Thr Ser Asn Ser Tyr Leu		
165	170	175
Arg Lys Lys Ala Ala Leu Cys Ala Val His Val Ile Arg Lys Val Pro		
180	185	190
Glu Leu Met Glu Met Phe Leu Pro Ala Thr Lys Asn Leu Leu Asn Glu		
195	200	205
Lys Asn His Gly Val Leu His Thr Ser Val Val Leu Leu Thr Glu Met		
210	215	220
Cys Glu Arg Ser Pro Asp Met Leu Ala His Phe Arg Lys Leu Val Pro		
225	230	235
Gln Leu Val Arg Ile Leu Lys Asn Leu Ile Met Ser Gly Tyr Ser Pro		
245	250	255
Glu His Asp Val Ser Gly Ile Ser Asp Pro Phe Leu Gln Val Arg Ile		
260	265	270
Leu Arg Leu Leu Arg Ile Leu Gly Arg Asn Asp Asp Asp Ser Ser Glu		
275	280	285
Ala Met Asn Asp Ile Leu Ala Gln Val Ala Thr Asn Thr Glu Thr Ser		
290	295	300
Lys Asn Val Gly Asn Ala Ile Leu Tyr Glu Thr Val Leu Thr Ile Met		
305	310	315
Asp Ile Lys Ser Glu Ser Gly Leu Arg Val Leu Ala Ile Asn Ile Leu		
325	330	335
Gly Arg Phe Leu Leu Asn Asn Asp Lys Asn Ile Arg Tyr Val Ala Leu		
340	345	350

Thr Ser Leu Leu Lys Thr Val Gln Thr Asp His Asn Ala Val Gln Arg
355 360 365
His Arg Ser Thr Ile Val Asp Cys Leu Lys Asp Leu Asp Val Ser Ile
370 375 380
Lys Arg Arg Ala Met Glu Leu Ser Phe Ala Leu Val Asn Gly Asn Asn
385 390 395 400
Ile Arg Gly Met Met Lys Glu Leu Leu Tyr Phe Leu Asp Ser Cys Glu
405 410 415
Pro Glu Phe Lys Ala Asp Cys Ala Ser Gly Ile Phe Leu Ala Ala Glu
420 425 430
Lys Tyr Ala Pro Ser Lys Arg Trp His Ile Asp Thr Ile Met Arg Val
435 440 445
Leu Thr Thr Ala Gly Ser Tyr Val Arg Asp Asp Ala Val Pro Asn Leu
450 455 460
Ile Gln Leu Ile Thr Asn Ser Val Glu Met His Ala Tyr Thr Val Gln
465 470 475 480
Arg Leu Tyr Lys Ala Ile Leu Gly Asp Tyr Ser Gln Gln Pro Leu Val
485 490 495
Gln Val Ala Ala Trp Cys Ile Gly Glu Tyr Gly Asp Leu Leu Val Ser
500 505 510
Gly Gln Cys Glu Glu Glu Glu Pro Ile Gln Val Thr Glu Asp Glu Val
515 520 525
Leu Asp Ile Leu Glu Ser Val Leu Ile Ser Asn Met Ser Thr Ser Val
530 535 540
Thr Arg Gly Tyr Ala Leu Thr Ala Ile Met Lys Leu Ser Thr Arg Phe
545 550 555 560
Thr Cys Thr Val Asn Arg Ile Lys Lys Val Val Ser Ile Tyr Gly Ser
565 570 575
Ser Ile Asp Val Glu Leu Gln Gln Arg Ala Val Glu Tyr Asn Ala Leu

580	585	590
Phe Lys Lys Tyr Asp His Met Arg Ser Ala Leu Leu Glu Arg Met Pro		
595	600	605
Val Met Glu Lys Val Thr Thr Asn Gly Pro Thr Glu Ile Val Gln Thr		
610	615	620
Asn Gly Glu Thr Glu Pro Ala Pro Leu Glu Thr Lys Pro Pro Pro Ser		
625	630	635
Gly Pro Gln Pro Thr Ser Gln Ala Asn Asp Leu Leu Asp Leu Leu Gly		
645	650	655
Gly Asn Asp Ile Thr Pro Val Ile Pro Thr Ala Pro Thr Ser Lys Pro		
660	665	670
Ser Ser Ala Gly Gly Glu Leu Leu Asp Leu Leu Gly Asp Ile Asn Leu		
675	680	685
Thr Gly Ala Pro Ala Ala Ala Pro Ala Pro Ala Ser Val Pro Gln Ile		
690	695	700
Ser Gln Pro Pro Phe Leu Leu Asp Gly Leu Ser Ser Gln Pro Leu Phe		
705	710	715
Asn Asp Ile Ala Ala Gly Ile Pro Ser Ile Thr Ala Tyr Ser Lys Asn		
725	730	735
Gly Leu Lys Ile Glu Phe Thr Phe Glu Arg Ser Asn Thr Asn Pro Ser		
740	745	750
Val Thr Val Ile Thr Ile Gln Ala Ser Asn Ser Thr Glu Leu Asp Met		
755	760	765
Thr Asp Phe Val Phe Gln Ala Ala Val Pro Lys Thr Phe Gln Leu Gln		
770	775	780
Leu Leu Ser Pro Ser Ser Ser Ile Val Pro Ala Phe Asn Thr Gly Thr		
785	790	795
Ile Thr Gln Val Ile Lys Val Leu Asn Pro Gln Lys Gln Gln Leu Arg		
805	810	815

Met Arg Ile Lys Leu Thr Tyr Asn His Lys Gly Ser Ala Met Gln Asp

820

825

830

Leu Ala Glu Val Asn Asn Phe Pro Pro Gln Ser Trp Gln

835

840

845

<210> 3309

<211> 101

<212> PRT

<213> Homo sapiens

<400> 3309

Met Gly Val Gly Gly Arg Glu Ala Glu Lys Arg Ala Leu Arg Thr Ser

1

5

10

15

Ser Gln Cys Phe Cys Gly Lys Trp Arg Gln Asp Gly Ser Ser Gln Arg

20

25

30

Gly Met Glu Ala Glu Ser Val Cys Trp Ser Leu Glu Ala Arg Met Leu

35

40

45

Pro Asn Thr Ala Val Pro Leu Arg Ala Ser Pro Pro Gly Arg Leu Ser

50

55

60

Pro Leu Pro Ala Cys Cys Pro His Arg Leu Arg Gly Ser Gly Gly Ala

65

70

75

80

Gly Pro Arg Pro Phe Cys Ala Cys Leu Leu Gly Arg Ser Arg Pro Glu

85

90

95

Arg Gly Ser Ala Val

100

<210> 3310

<211> 236

<212> PRT

<213> Homo sapiens

<400> 3310

Met Gly Gly Arg Val Thr Gly Gly Trp Ala Val Gly Leu Pro Asp Thr

1 5 10 15

His Pro Thr Gly Ser Pro Ala Gly Ser Pro Leu Gly Thr Thr Met Ser

20 25 30

Ala Arg Arg Met Val Gly Trp Met Tyr Trp Ser Lys Glu Gly Leu Thr

35 40 45

Asn Leu Leu Tyr Cys Leu Met Thr Pro Ser Met Ser Arg Pro Arg Ser

50 55 60

Leu Met Ser Arg Arg Ser Arg Arg Thr Arg Arg Met Ser Glu Ser Val

65 70 75 80

Ser Thr Lys Ile Phe Met Ser Arg Ser Trp Trp Arg Gln Arg Ala Ser

85 90 95

Glu Trp Pro Asp Ala Ser Ser Gly His Gly Asp Thr Gly Thr Ser Pro

100 105 110

Cys Thr Glu Ala Ala Trp Ser Val Gly Leu Ala Arg Ala Thr Ser Pro

115 120 125

Gly His Pro Gly Arg Trp Gly Gly Val Gly Arg Trp Gly Cys Leu His

130 135 140

Leu Val Leu Gly Pro Gly Pro Ser His Phe Pro Arg Ala Pro Trp Gln

145 150 155 160

Val Gly Arg Ser Gly Glu Val Gly Val Ser Gly Asp Ala Val Leu Pro

165 170 175

Val Arg Gly Leu Gly Glu Glu Ala Trp His Gly Gly Trp Leu Arg Asn

180 185 190

Gln Ala Gly Met Gly Leu Gly Thr Cys Asp Leu Leu Thr Leu Leu Gly
 195 200 205
 Val Thr Cys Thr Asn Thr Leu Gly Asn Gly Gly Arg Gly Glu Phe Arg
 210 215 220
 Val Cys Pro His Ala Gln His Thr Val Val Gly Pro
 225 230 235

<210> 3311

<211> 225

<212> PRT

<213> Homo sapiens

<400> 3311

Met Arg Ile Phe Arg Gly Cys Thr Gln Pro Ser Thr Leu Gly Gln Gly
 1 5 10 15
 Val His Ser Pro Leu Met Lys Ala Gln Phe Ile Thr His His Ser Arg
 20 25 30
 Lys Gln Val Lys Pro Gly Glu Gly Trp Gly Arg Ser Ser Phe Thr Arg
 35 40 45
 Ala Cys Arg Asp His Thr Thr Ile Leu Ser Gly Asn Arg Ser Phe Ser
 50 55 60
 Ala Val Ala Ala Thr Pro Ala Lys His Lys His Met His Thr Arg Thr
 65 70 75 80
 His Thr His Met His Thr His Thr Gly Met His Thr Leu Thr Gly Thr
 85 90 95
 His Val His Thr Pro His Thr Gln Met His Thr Arg Ile Leu Thr Leu
 100 105 110
 Ser His Met His Thr His Ala His Thr His Ala His Thr His Gly His

115 120 125
 Thr His Thr Arg Ala His Ser Thr His Ala His Thr His Ala His Ser
 130 135 140
 His Tyr His Thr Arg Thr Leu Thr Leu Thr His Ser His Ala His Ser
 145 150 155 160
 Cys Thr Leu Thr Ser Thr Ile Thr His Met His Thr His Thr His Thr
 165 170 175
 His Met His Thr His Thr Ser Thr Leu Thr Arg Thr Leu Thr Leu Thr
 180 185 190
 His Thr His Met His Thr Phe Leu Ser Leu Val Ser His Leu Ala Gly
 195 200 205
 Tyr Ile Ser Cys Gln Phe Ile Phe Ser Ser Glu Asn Pro Arg Leu Cys
 210 215 220
 His
 225

<210> 3312

<211> 1177

<212> PRT

<213> Homo sapiens

<400> 3312

Met Ala Gly Ile Phe Lys Glu Phe Phe Phe Ser Thr Glu Asp Leu Pro
 1 5 10 15
 Glu Val Ile Leu Thr Leu Ser Leu Ile Ser Ser Ile Gly Ala Phe Leu
 20 25 30
 Asn Arg His Leu Glu Asp Phe Pro Ile Pro Val Pro Val Ile Leu Phe
 35 40 45

Leu Leu Gly Cys Ser Phe Glu Val Leu Ser Phe Thr Ser Ser Gln Val
 50 55 60
 Gln Arg Tyr Ala Asn Ala Ile Gln Trp Ile Ser Pro Asp Leu Phe Phe
 65 70 75 80
 Arg Ile Phe Thr Pro Val Val Phe Phe Thr Thr Ala Phe Asp Met Asp
 85 90 95
 Thr Tyr Met Leu Gln Lys Leu Phe Trp Gln Ile Leu Leu Ile Ser Ile
 100 105 110
 Pro Gly Phe Leu Val Asn Tyr Ile Leu Val Leu Trp His Leu Ala Ser
 115 120 125
 Val Asn Gln Leu Leu Leu Lys Pro Thr Gln Trp Leu Leu Phe Ser Ala
 130 135 140
 Ile Leu Val Ser Ser Asp Pro Met Leu Thr Ala Ala Ala Val Arg Asp
 145 150 155 160
 Leu Gly Leu Ser Arg Ser Leu Ile Ser Leu Ile Asn Gly Glu Ser Leu
 165 170 175
 Met Thr Ser Val Ile Ser Leu Ile Thr Phe Thr Ser Ile Met Asp Phe
 180 185 190
 Asp Gln Arg Leu Gln Ser Lys Arg Asn His Thr Leu Ala Glu Glu Ile
 195 200 205
 Val Gly Gly Ile Cys Ser Tyr Ile Ile Ala Ser Phe Leu Phe Gly Ile
 210 215 220
 Leu Ser Ser Lys Leu Ile Gln Phe Trp Met Ser Thr Val Phe Gly Asp
 225 230 235 240
 Asp Val Asn His Ile Ser Leu Ile Phe Ser Ile Leu Tyr Leu Ile Phe
 245 250 255
 Tyr Ile Cys Glu Leu Val Gly Met Ser Gly Ile Phe Thr Leu Ala Ile
 260 265 270
 Val Gly Leu Leu Leu Asn Ser Thr Ser Phe Lys Ala Ala Val Glu Glu

275	280	285
Thr Leu Leu Leu Glu Phe Trp	Thr Phe Leu Ser Arg	Ile Ala Phe Leu
290	295	300
Met Val Phe Thr Phe Phe Gly	Leu Leu Ile Pro Ala His	Thr Tyr Leu
305	310	315
Tyr Ile Glu Phe Val Asp Ile	Tyr Tyr Ser Leu Asn Ile	Tyr Leu Thr
325	330	335
Leu Ile Val Leu Arg Phe Leu	Thr Leu Leu Leu Met Ser	Pro Val Leu
340	345	350
Ser Arg Val Gly His Glu Phe	Ser Trp Arg Trp Val Phe	Ile Met Val
355	360	365
Cys Ser Glu Met Lys Gly Met	Pro Asn Ile Asn Met Ala	Leu Leu Leu
370	375	380
Ala Tyr Ser Asp Leu Tyr Phe	Gly Ser Asp Lys Glu Lys	Ser Gln Ile
385	390	395
Leu Phe His Gly Val Leu Val	Cys Leu Ile Thr Leu Val	Val Asn Arg
405	410	415
Phe Ile Leu Pro Val Ala Val	Ala Ile Leu Gly Leu Arg	Asp Ala Thr
420	425	430
Ser Thr Lys Tyr Lys Ser Val	Cys Cys Thr Phe Gln His	Phe Gln Glu
435	440	445
Leu Thr Lys Ser Ala Ala Ser	Ala Leu Lys Phe Asp Lys	Asp Leu Ala
450	455	460
Asn Ala Asp Trp Asn Met Ile	Glu Lys Ala Ile Thr Leu	Glu Asn Pro
465	470	475
Tyr Met Leu Asn Glu Glu Glu	Thr Thr Glu His Gln Lys	Val Lys Cys
485	490	495
Pro His Cys Asn Lys Glu Ile	Asp Glu Ile Phe Asn Thr	Glu Ala Met
500	505	510

Glu Leu Ala Asn Arg Arg Leu Leu Ser Ala Gln Ile Ala Ser Tyr Gln
515 520 525
Arg Gln Tyr Arg Asn Glu Ile Leu Ser Gln Ser Ala Val Gln Val Leu
530 535 540
Val Gly Ala Ala Glu Ser Phe Gly Glu Lys Lys Gly Lys Cys Met Ser
545 550 555 560
Leu Asp Thr Ile Lys Asn Tyr Ser Glu Ser Gln Lys Thr Val Thr Phe
565 570 575
Ala Arg Lys Leu Leu Leu Asn Trp Val Tyr Asn Thr Arg Lys Glu Lys
580 585 590
Glu Gly Pro Ser Lys Tyr Phe Phe Phe Arg Ile Cys His Thr Ile Val
595 600 605
Phe Thr Glu Glu Phe Glu His Val Gly Tyr Leu Val Ile Leu Met Asn
610 615 620
Ile Phe Pro Phe Ile Ile Ser Trp Ile Ser Gln Leu Asn Val Ile Tyr
625 630 635 640
His Ser Glu Leu Lys His Thr Asn Tyr Cys Phe Leu Thr Leu Tyr Ile
645 650 655
Leu Glu Ala Leu Leu Lys Ile Ala Ala Met Arg Lys Asp Phe Phe Ser
660 665 670
His Ala Trp Asn Ile Phe Glu Leu Ala Ile Thr Leu Ile Gly Ile Leu
675 680 685
His Val Ile Leu Ile Glu Ile Asp Thr Ile Lys Tyr Ile Phe Asn Glu
690 695 700
Ile Glu Val Ile Val Phe Ile Lys Val Val Gln Phe Phe Arg Ile Leu
705 710 715 720
Arg Ile Phe Lys Leu Ile Ala Pro Lys Leu Leu Lys Ile Ile Asp Lys
725 730 735
Arg Met Ser His Gln Lys Thr Phe Trp Tyr Gly Ile Leu Lys Gly Tyr

740	745	750
Val Gln Gly Glu Ala Asp Ile Met Thr Ile Ile Asp Gln Ile Thr Ile		
755	760	765
Ser Lys Gln Ile Lys Gln Met Leu Leu Lys Gln Val Ile Arg Asn Met		
770	775	780
Asp His Ala Thr Lys Glu Leu Gly Tyr Leu Glu Tyr Asp His Pro Glu		
785	790	795
Ile Ala Val Thr Val Lys Thr Lys Glu Glu Ile Asn Val Met Leu Asn		
805	810	815
Met Ala Thr Glu Ile Leu Lys Ala Phe Ser Leu Lys Gly Ile Ile Ser		
820	825	830
Lys Thr Glu Gly Ala Gly Ile Asn Lys Leu Ile Met Ala Lys Lys Lys		
835	840	845
Glu Val Leu Asp Ser Gln Ser Ile Ile Arg Pro Leu Thr Val Glu Glu		
850	855	860
Val Leu Tyr His Ile Pro Trp Leu Asp Lys Asn Lys Asp Tyr Ile Asn		
865	870	875
Phe Ile Gln Glu Lys Ala Lys Val Val Thr Phe Asp Cys Gly Asn Asp		
885	890	895
Ile Phe Glu Glu Gly Asp Glu Pro Lys Gly Ile Tyr Ile Ile Ile Ser		
900	905	910
Gly Met Val Lys Leu Glu Lys Ser Lys Pro Gly Leu Gly Ile Asp Gln		
915	920	925
Met Val Glu Ser Lys Glu Lys Asp Phe Pro Ile Ile Asp Thr Asp Tyr		
930	935	940
Met Leu Ser Gly Glu Ile Ile Gly Glu Ile Asn Cys Leu Thr Asn Glu		
945	950	955
Pro Met Lys Tyr Ser Ala Thr Cys Lys Thr Val Val Glu Thr Cys Phe		
965	970	975

Ile Pro Lys Thr His Leu Tyr Asp Ala Phe Glu Gln Cys Ser Pro Leu
980 985 990
Ile Lys Gln Lys Met Trp Leu Lys Leu Gly Leu Ala Ile Thr Ala Arg
995 1000 1005
Lys Ile Arg Glu His Leu Ser Tyr Glu Asp Trp Asn Tyr Asn Met Gln
1010 1015 1020
Leu Lys Leu Ser Asn Ile Tyr Val Val Asp Ile Pro Met Ser Thr Lys
1025 1030 1035 1040
Thr Asp Ile Tyr Asp Glu Asn Leu Ile Tyr Val Ile Leu Ile His Gly
1045 1050 1055
Ala Val Glu Asp Cys Leu Leu Arg Lys Thr Tyr Arg Ala Pro Phe Leu
1060 1065 1070
Ile Pro Ile Thr Cys His Gln Ile Gln Ser Ile Glu Asp Phe Thr Lys
1075 1080 1085
Val Val Ile Ile Gln Thr Pro Ile Asn Met Lys Thr Phe Arg Arg Asn
1090 1095 1100
Ile Arg Lys Phe Val Pro Lys His Lys Ser Tyr Leu Thr Pro Gly Leu
1105 1110 1115 1120
Ile Gly Ser Val Gly Thr Leu Glu Glu Gly Ile Gln Glu Glu Arg Asn
1125 1130 1135
Val Lys Glu Asp Gly Ala His Ser Ala Ala Thr Ala Arg Ser Pro Gln
1140 1145 1150
Pro Cys Ser Leu Leu Gly Thr Lys Phe Asn Cys Lys Glu Ser Pro Arg
1155 1160 1165
Ile Asn Leu Arg Lys Val Arg Lys Glu
1170 1175

<210> 3313

<211> 359

<212> PRT

<213> Homo sapiens

<400> 3313

Met Arg Ala Ala Ala Met Thr Thr Ala Ile Leu Glu Arg Leu Ser Thr

1 5 10 15

Leu Ser Val Ser Gly Gln Gln Leu Arg Arg Leu Pro Lys Ile Leu Glu

20 25 30

Asp Gly Leu Pro Lys Met Pro Cys Thr Val Pro Glu Thr Asp Val Pro

35 40 45

Gln Leu Phe Arg Glu Pro Tyr Ile Arg Thr Gly Tyr Arg Pro Thr Gly

50 55 60

His Glu Trp Arg Tyr Tyr Phe Phe Ser Leu Phe Gln Lys His Asn Glu

65 70 75 80

Val Val Asn Val Trp Thr His Leu Leu Ala Ala Leu Ala Val Leu Leu

85 90 95

Arg Phe Trp Ala Phe Ala Glu Ala Glu Ala Leu Pro Trp Ala Ser Thr

100 105 110

His Ser Leu Pro Leu Leu Leu Phe Ile Leu Ser Ser Ile Thr Tyr Leu

115 120 125

Thr Cys Ser Leu Leu Ala His Leu Leu Gln Ser Lys Ser Glu Leu Ser

130 135 140

His Tyr Thr Phe Tyr Phe Val Asp Tyr Val Gly Val Ser Val Tyr Gln

145 150 155 160

Tyr Gly Ser Ala Leu Ala His Phe Phe Tyr Ser Ser Asp Gln Ala Trp

165 170 175

Tyr Asp Arg Phe Trp Leu Phe Phe Leu Pro Ala Ala Ala Phe Cys Gly

180 185 190

Trp Leu Ser Cys Ala Gly Cys Ser Tyr Ala Lys Tyr Arg Tyr Arg Arg
195 200 205

Pro Tyr Pro Val Met Arg Lys Ile Cys Gln Val Val Pro Ala Gly Leu
210 215 220

Ala Phe Ile Leu Asp Ile Ser Pro Val Ala His Arg Val Ala Leu Cys
225 230 235 240

His Leu Ala Gly Cys Gln Glu Gln Ala Ala Trp Tyr His Thr Leu Gln
245 250 255

Ile Leu Phe Phe Leu Val Ser Ala Tyr Phe Phe Ser Cys Pro Val Pro
260 265 270

Glu Lys Tyr Phe Pro Gly Ser Cys Asp Ile Val Gly His Gly His Gln
275 280 285

Ile Phe His Ala Phe Leu Ser Ile Cys Thr Leu Ser Gln Leu Glu Ala
290 295 300

Ile Leu Leu Asp Tyr Gln Gly Arg Gln Glu Ile Phe Leu Gln Arg His
305 310 315 320

Gly Pro Leu Ser Val His Met Ala Cys Leu Ser Phe Phe Phe Leu Ala
325 330 335

Ala Cys Ser Ala Ala Thr Ala Ala Leu Leu Arg His Lys Val Lys Ala
340 345 350

Arg Leu Thr Lys Lys Asp Ser
355

<210> 3314

<211> 820

<212> PRT

<213> Homo sapiens

<400> 3314

Met	Asn	Pro	Tyr	Val	Pro	Asp	Lys	Leu	Ile	Thr	Ala	Gly	Ile	Lys	His
1				5					10					15	
Met	Lys	Phe	Trp	Arg	Lys	Ala	Gly	Asp	Val	Cys	Ile	Trp	Arg	Asp	Ile
				20				25						30	
Phe	Leu	Val	Lys	Thr	Val	Lys	Ala	His	Asp	Gly	Pro	Val	Phe	Ser	Met
				35				40						45	
His	Ala	Leu	Glu	Lys	Gly	Phe	Val	Thr	Gly	Gly	Lys	Asp	Gly	Ile	Val
				50				55						60	
Ala	Leu	Trp	Asp	Asp	Ser	Phe	Glu	Arg	Cys	Leu	Lys	Thr	Tyr	Ala	Ile
				65				70						75	
Lys	Arg	Ala	Ala	Leu	Ala	Pro	Gly	Ser	Lys	Gly	Leu	Leu	Leu	Glu	Asp
								85						90	
Asn	Pro	Ser	Ile	Arg	Ala	Ile	Ser	Leu	Gly	His	Gly	His	Ile	Leu	Val
								100						105	
Gly	Thr	Lys	Asn	Gly	Glu	Ile	Leu	Glu	Val	Asp	Lys	Ser	Gly	Pro	Ile
								115						120	
Thr	Leu	Leu	Val	Gln	Gly	His	Met	Glu	Gly	Glu	Val	Trp	Gly	Leu	Ala
								130						135	
Thr	His	Pro	Tyr	Leu	Pro	Ile	Cys	Ala	Thr	Val	Ser	Asp	Asp	Lys	Thr
								145						150	
Leu	Arg	Ile	Trp	Asp	Leu	Ser	Pro	Ser	His	Cys	Met	Leu	Ala	Val	Arg
														165	
Lys	Leu	Lys	Lys	Gly	Gly	Arg	Cys	Cys	Cys	Phe	Ser	Pro	Asp	Gly	Lys
														180	
Ala	Leu	Ala	Val	Gly	Leu	Asn	Asp	Gly	Ser	Phe	Leu	Met	Ala	Asn	Ala
														195	
Asp	Thr	Leu	Glu	Asp	Leu	Val	Ser	Phe	His	His	Arg	Lys	Asp	Met	Ile
														210	
														215	
														220	

Ser Asp Ile Arg Phe Ser Pro Gly Ser Gly Lys Tyr Leu Ala Val Ala
225 230 235 240
Ser His Asp Ser Phe Ile Asp Ile Tyr Asn Val Met Ser Ser Lys Arg
245 250 255
Val Gly Ile Cys Lys Gly Ala Thr Ser Tyr Ile Thr His Ile Asp Trp
260 265 270
Asp Ile Arg Gly Lys Leu Leu Gln Val Asn Thr Gly Ala Lys Glu Gln
275 280 285
Leu Phe Phe Glu Ala Pro Arg Gly Lys Lys Gln Thr Ile Pro Ser Val
290 295 300
Glu Val Glu Lys Ile Ala Trp Ala Ser Trp Thr Ser Val Leu Gly Leu
305 310 315 320
Cys Cys Glu Gly Ile Trp Pro Val Ile Gly Glu Val Thr Asp Val Thr
325 330 335
Ala Ser Cys Leu Thr Ser Asp Lys Met Val Leu Ala Thr Gly Asp Asp
340 345 350
Leu Gly Phe Val Lys Leu Phe Arg Tyr Pro Thr Lys Gly Lys Phe Gly
355 360 365
Lys Phe Lys Arg Tyr Val Ala His Ser Thr His Val Thr Asn Val Arg
370 375 380
Trp Thr Tyr Asp Asp Ser Met Leu Val Thr Leu Gly Gly Thr Asp Met
385 390 395 400
Ser Leu Met Val Trp Thr Asn Glu Met Glu Gly Tyr Arg Glu Lys Arg
405 410 415
Pro Cys Asp Ser Glu Glu Ser Asp Ile Asp Ser Glu Glu Asp Gly Gly
420 425 430
Tyr Asp Ser Asp Val Thr Arg Glu Asn Glu Ile Ser Tyr Thr Ile Arg
435 440 445
Ala Leu Ser Thr Asn Ile Arg Pro Met Leu Gly Ile Lys Pro His Leu

450 455 460
Gln Gln Lys Glu Pro Ser Ile Asp Glu Arg Pro Pro Val Ser Arg Ala
465 470 475 480
Pro Pro Gln Pro Glu Lys Leu Gln Thr Asn Asn Val Gly Lys Lys Lys
 485 490 495
Arg Pro Ile Glu Asp Leu Val Leu Glu Leu Ile Phe Gly Tyr Arg Gly
 500 505 510
Arg Asp Cys Arg Asn Asn Val His Tyr Leu Asn Asp Gly Asp Asp Ile
 515 520 525
Ile Tyr His Thr Ala Ser Val Gly Ile Leu His Asn Val Ala Thr Gly
 530 535 540
Ser Gln Ser Phe Tyr Gln Glu His Asn Asp Asp Ile Leu Cys Leu Thr
545 550 555 560
Val Asn Gln His Pro Lys Phe Ile Asn Ile Val Ala Thr Gly Gln Val
 565 570 575
Gly Asp Ser Ala Asp Met Ser Ala Thr Ala Pro Ser Ile His Ile Trp
 580 585 590
Asp Ala Met Asn Lys Gln Thr Leu Ser Ile Leu Arg Cys Tyr His Ser
 595 600 605
Lys Gly Val Cys Ser Val Ser Phe Ser Ala Thr Gly Lys Leu Leu Leu
 610 615 620
Ser Val Gly Leu Asp Pro Glu His Thr Ile Thr Ile Trp Arg Trp Gln
625 630 635 640
Glu Gly Ala Lys Ile Ala Ser Arg Ala Gly His Asn Gln Arg Ile Phe
 645 650 655
Val Ala Glu Phe Arg Pro Asp Ser Asp Thr Gln Phe Val Ser Val Gly
 660 665 670
Val Lys His Val Lys Phe Trp Thr Leu Ala Gly Arg Ala Leu Leu Ser
 675 680 685

Lys Lys Gly Leu Leu Ser Thr Leu Glu Asp Ala Arg Met Gln Thr Met
 690 695 700
 Leu Ala Ile Ala Phe Gly Ala Asn Asn Leu Thr Phe Thr Gly Thr Ile
 705 710 715 720
 Ser Gly Asp Val Cys Val Trp Lys Asp His Ile Leu Cys Arg Ile Val
 725 730 735
 Ala Arg Ala His Asn Gly Pro Val Phe Ala Met Tyr Thr Thr Leu Arg
 740 745 750
 Asp Gly Leu Ile Val Thr Gly Gly Lys Glu Arg Pro Ser Lys Glu Gly
 755 760 765
 Gly Ala Val Lys Leu Trp Asp Gln Glu Leu Arg Arg Cys Arg Ala Phe
 770 775 780
 Arg Leu Glu Thr Gly Gln Ala Thr Asp Cys Val Arg Ser Val Cys Arg
 785 790 795 800
 Gly Lys Val Phe Thr Arg Glu Asp Phe Glu Ser Phe His His Lys Glu
 805 810 815
 Met Ile Asn Val
 820

<210> 3315

<211> 139

<212> PRT

<213> Homo sapiens

<400> 3315

Met Cys Ser Gly Ser Cys Cys Gly Gln Cys Ser Leu Val Ser Glu Ala
 1 5 10 15
 Leu Phe Val Leu Val Trp Pro Arg Thr Ser Gln Lys Thr Val Leu Ser

20	25	30
Cys Gly Gly Arg His Gly Arg Ser Arg Ser Leu Pro Pro Ala Leu Glu		
35	40	45
Trp Ala Gly Leu Leu Val Leu Cys Ser Gly Arg Thr Leu Pro Asp Phe		
50	55	60
Gln Val Phe Pro Gly Val Arg His Pro Ile Ala Ala Phe Ser Leu Val		
65	70	75
Thr Leu Thr Ser Phe Leu Leu Arg Leu Val Leu Asp Leu Gln Gly His		
85	90	95
Leu Pro Arg Leu Pro Trp Lys Gly Ala Leu Ser Ser Phe Leu Tyr Phe		
100	105	110
Asp Asp Phe Glu Arg Phe Pro Ile Val Thr Val Arg Lys Leu Ala Ser		
115	120	125
Glu Ala Lys Ile Leu Leu Leu Ser Trp Pro Leu		
130	135	

<210> 3316

<211> 358

<212> PRT

<213> Homo sapiens

<400> 3316

Met Phe Arg Ser Pro Gly Thr Leu Glu Ile Leu Thr Pro Leu Arg Asp		
1	5	10
Thr Ala Phe Pro Ala Phe Asp Phe Gln Lys Cys Leu Val Asn Ile Gln		
20	25	30
Ala Leu Leu Met Asp Pro Glu Leu His Val Gly Lys Cys Lys Ile Glu		
35	40	45

Phe Leu Thr Gly Glu Phe Ile Tyr Arg Met Tyr Thr Ile Asp Met His
50 55 60

Ser Gln Leu Glu Leu Thr Ala Ser Leu Ile Pro Gln Pro Gly Thr Ser
65 70 75 80

Leu Ile Pro Leu Val Met Val Ser Asn Pro His Ser Leu Gly Phe Gln
85 90 95

Ala Thr Phe Tyr Glu Asn Gly Tyr Thr Ser Asp Gly Asn Thr Lys Tyr
100 105 110

Lys Leu Asp Ile Phe Leu Lys Gln Gln Gln His Trp Gly Arg Thr Asp
115 120 125

Ser Asn Phe Thr Ser Ser Leu Lys Lys Ala Thr Met Ser Thr Leu Thr
130 135 140

Val Asp Ile Ala Asn Lys Glu Ile Ser Cys Val Asp Ile Lys Pro Leu
145 150 155 160

Ser Thr Leu Ile Ser Val Gly Cys Asp Leu Asp Lys Lys Ile Val Ile
165 170 175

Gln Asn Lys Val Ser Ala Cys Ser Met Gly Ile Leu Asp Pro Leu Thr
180 185 190

Leu Gln Asp Asn Tyr Ser Phe Ile Ile Glu Lys Glu Phe Tyr Asp Pro
195 200 205

Gly Phe Gln Gly Gln Gln Ser Ser Glu Asp Leu His Val Phe Tyr Ser
210 215 220

Tyr Gln Gln Leu Gly Cys Pro Leu Leu Val Tyr Tyr Asp Thr Leu Trp
225 230 235 240

Lys Pro Val Val Glu Leu Leu Glu Cys Ser Gly Met Asn Thr Val His
245 250 255

Cys Ser Leu Asn Leu Pro Gly Ser Ser Gly Pro Pro Ala Ser Ala Ser
260 265 270

Gln Val Ala Gly Thr Ala Val Ala Tyr His Asn Ala Arg Leu Ile Phe

275 280 285
 Phe Phe Phe Phe Phe Phe Phe Leu Arg Gln Ser Leu Ala Leu Ser Pro
 290 295 300
 Arg Leu Glu Cys Ser Gly Val Ile Leu Ala His Arg Lys Leu Arg Leu
 305 310 315 320
 Pro Gly Ser Arg His Ser Pro Ala Ser Ala Ser Arg Val Ala Gly Ile
 325 330 335
 Thr Gly Ala Arg His Cys Ala Arg Leu Ile Phe Phe Ile Phe Ser Arg
 340 345 350
 Asp Arg Val Ser Pro Cys
 355

<210> 3317

<211> 262

<212> PRT

<213> Homo sapiens

<400> 3317

Met Gly Ser Arg Pro Cys Ser Pro Ser Ala Cys Leu Ala Pro Trp Trp
 1 5 10 15
 Gly Gln Gln Pro Gly Gly Pro Gly Pro Ala Lys Arg Ser Arg Leu Glu
 20 25 30
 Glu Pro Ala Gly Pro Glu Ser Arg Ala Ala Pro Ser Pro Glu Asp Pro
 35 40 45
 Ala Gly Thr Pro Ala Val Asp Ala Leu Thr Ser Met Val Val Leu Asp
 50 55 60
 Ala Gly Cys Ala Leu Arg Val Pro Leu Glu Asp Val Asp Leu Val Leu
 65 70 75 80

Glu Leu Ala Pro Met Ser Val Leu Arg Val Ser Leu Gly Gly His Thr
 85 90 95
 Leu Ile Val Ile Pro Glu Val Leu Leu Ser Ser Val Asp Glu Cys Ser
 100 105 110
 Gly Ala Gln Gly Asp Trp Ser Ala Gly Leu Glu Val Asp Val Phe Leu
 115 120 125
 Gly Ala His Gly Glu Asp Val Val Val Glu Gln Glu Val Cys Ala Ser
 130 135 140
 Val Pro Glu Ile Ala Ala Glu Glu Glu Ala Tyr Glu Glu Asp Ala Asp
 145 150 155 160
 Ser Glu Phe Pro Glu Leu Trp Met Asp Ser Ala Ala Gly Ser Ala Ala
 165 170 175
 Gly Leu Tyr Pro Ser Ala Arg Ser Met Phe Ser Pro Tyr Arg Glu Gly
 180 185 190
 Pro Ile Arg Gly Pro Cys Ala Leu Ala Pro Asn Pro Ser Ser Glu Arg
 195 200 205
 Arg Ser Pro Arg Pro Ile Phe Asp Leu Glu Phe His Leu Leu Glu Pro
 210 215 220
 Val Pro Ser Ser Pro Leu Gln Pro Leu Pro Pro Ser Pro Ser Pro Gly
 225 230 235 240
 Pro His Ala Arg Pro Glu Leu Pro Glu Arg Pro Pro Cys Lys Val Arg
 245 250 255
 Arg Arg Leu Phe Gln Glu
 260

<210> 3318

<211> 165

<212> PRT

<213> Homo sapiens

<400> 3318

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Met Tyr Ser Gly Glu Phe Gly Leu Val Arg Val Tyr Ala Thr Phe Tyr
  1             5             10             15
Leu Ser Asp Leu Lys Gln Ile Lys Ile Asp Leu Gly Lys Phe Ser Asp
          20             25             30
Asn Pro Asp Gly Cys Ile Asp Val Leu Gln Gly Leu Gly Gln Ser Phe
          35             40             45
Asp Leu Thr Trp Arg Asp Ile Met Leu Leu Leu Asp Gln Thr Leu Thr
          50             55             60
Pro Asn Glu Arg Ser Thr Val Ile Thr Ala Ala Arg Glu Phe Gly Asp
          65             70             75             80
Leu Trp Tyr Leu Ser Gln Val Asn Asp Arg Met Thr Thr Glu Glu Arg
          85             90             95
Glu Gln Phe Pro Thr Gly Gln Gln Ala Val Pro Arg Leu Asp Pro His
          100            105            110
Trp Asp Ala Glu Ser Glu His Gly Asp Trp Cys His Arg His Leu Leu
          115            120            125
Thr Cys Val Leu Glu Gly Leu Arg Lys Thr Arg Gln Lys Pro Ile Asn
          130            135            140
Tyr Ser Met Met Ser Thr Ile Thr Gln Gly Lys Lys Lys Ile Leu Leu
          145            150            155            160
Pro Phe Trp Arg Asp
          165

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<210> 3319

<211> 142

<212> PRT

<213> Homo sapiens

<400> 3319

Met Phe Ser Met Val Leu Ala Asp Thr Val Gln Val Gly Glu Gly Gln

1 5 10 15

Ala Gly Ala Phe Arg Gln Leu Thr Trp Ala Ala Leu Pro Phe Gln Val

20 25 30

Ile Val Gln Ser Gly Arg His Pro Thr Val Leu Gln Lys Leu Cys Gln

35 40 45

Leu Pro Phe Gln Tyr Phe Ser Asp Pro Arg Leu Ile Lys Val Leu Phe

50 55 60

Pro Ser Leu Ile Ala Ala Cys Asp Asn Asn His Gln Asn Lys Ile Ile

65 70 75 80

Leu Glu Gln Glu Met Ser Cys Val Leu Leu Ala Thr Phe Ile Gln Asp

85 90 95

Leu Ala Gln Thr Pro Gly Gln Ala Glu Asn Gln Pro Tyr Gln Pro Lys

100 105 110

Gly Met Ser Leu Leu Lys Leu Asn Phe Met Cys Leu Leu Ala Lys Trp

115 120 125

Thr Ser Phe Leu Ser Phe Pro Leu Glu Leu Leu His Tyr Met

130 135 140

<210> 3320

<211> 108

<212> PRT

<213> Homo sapiens

<400> 3320

Met Cys Arg Gly Arg Asp Gly Ala Leu Ala Arg Arg Trp Glu Ala Gly
 1 5 10 15
 Gly Ser Ala Gly Ala Pro Gly Glu Asp Gly Thr Pro Pro Pro Leu Leu
 20 25 30
 Leu Arg Thr Gly Lys Ala Phe Gly Pro Glu Leu Gly Ala Gln Asn Gly
 35 40 45
 Ser Val Arg Cys Leu Ser His Pro Asp Pro Ala Pro Gly Phe Phe Arg
 50 55 60
 Ser Arg Arg Trp Ile Gly Cys Ile Thr Arg Leu Pro Pro Ala Thr Leu
 65 70 75 80
 Pro Ala Gln Ser Leu Gln Lys Pro Pro Leu Ser Pro Ser Pro Gly Pro
 85 90 95
 Tyr Pro Leu Ser Gln Pro His Phe Phe Pro Pro Pro
 100 105

<210> 3321

<211> 208

<212> PRT

<213> Homo sapiens

<400> 3321

Met Ser Pro Thr Lys Asp Ser His Pro Ser Pro His Phe Pro Arg Asp
 1 5 10 15
 Ser Gly Ile His Ala Pro Thr Pro Pro Asp Ser Gly Ala Leu Thr Leu
 20 25 30
 Ser Pro Pro Val Ser Gln Gly Pro Gly Val Gly Pro Arg Thr Gly Arg
 35 40 45

Gly Asn Arg Leu Cys Arg Pro Pro Gly Arg Ser Ala Ala Arg Ser Phe
 50 55 60
 Cys Leu Leu Pro Gly Pro Pro Leu Gly Thr Gly Ala Leu Gly Ser Pro
 65 70 75 80
 Arg Ala Ala Gln Gly Leu Gly Phe Arg Gly Ser Gly Gln Arg Ala Arg
 85 90 95
 His Asn Ser Phe Thr Ser Pro Ser Pro Pro Gly Ala His His Pro Leu
 100 105 110
 Gly Thr His Thr Arg Ala Leu Pro Pro Pro Leu Ala Arg Cys Pro Cys
 115 120 125
 Ala Ala Leu Leu Ala Gly Arg Glu Cys His Gly Gly Pro Ser Pro Ala
 130 135 140
 Ala Pro Arg Pro Leu Pro Gly Thr Ser Leu Thr Trp Pro Ser Arg Ala
 145 150 155 160
 Pro Leu Pro Arg Pro Pro Pro Arg Glu Arg Gln Gly Pro Gly Asp Arg
 165 170 175
 Ser Pro Ser Pro Ser Ala Pro Ser Cys Pro Gly Val Gly Ala Ser Ser
 180 185 190
 Pro Arg Arg Arg Lys Pro Arg Glu Ala Ala Gly Leu Thr Pro Asp Gly
 195 200 205

<210> 3322

<211> 119

<212> PRT

<213> Homo sapiens

<400> 3322

Met Tyr Lys Phe Leu Asp Thr Tyr Thr Leu Pro Ser Leu Lys Gln Glu

1 5 10 15
 Glu Ile Glu Phe Leu Lys Arg Pro Ile Thr Ser Ser Glu Ile Glu Ala
 20 25 30
 Val Ile Asn Ser Leu Pro Thr Lys Ser Pro Gly Pro Asp Gly Phe Thr
 35 40 45
 Ala Lys Ser Tyr Gln Arg Tyr Lys Glu Glu Leu Val Leu Phe Leu Leu
 50 55 60
 Lys Pro Phe Gln Arg Ile Glu Lys Glu Gly Ile Leu Pro Asn Ser Phe
 65 70 75 80
 Tyr Glu Ser Ser Val Ile Leu Ile Pro Lys Pro His Arg Asp Thr Thr
 85 90 95
 Lys Glu Asn Phe Arg Pro Ile Ser Leu Met Asn Ile Asn Ala Lys Ile
 100 105 110
 Leu Asn Lys Ile Leu Ala Asn
 115

<210> 3323

<211> 881

<212> PRT

<213> Homo sapiens

<400> 3323

Met Glu Arg Arg Gly Lys Tyr Ser Ser Lys Leu Glu Arg Glu Ser Lys
 1 5 10 15
 Arg Thr Ser Glu Asn Glu Ala Ile Lys Arg Cys Cys Ser Pro Pro Asn
 20 25 30
 Glu Leu Gly Phe Arg Arg Gly Ser Ser Tyr Ser Lys His Asp Ser Ser
 35 40 45

Ala Ser Arg Tyr Lys Ser Thr Leu Ser Lys Pro Ile Pro Lys Ser Asp
50 55 60
Lys Phe Lys Asn Ser Phe Cys Cys Thr Glu Leu Asn Glu Glu Ile Lys
65 70 75 80
Gln Ser His Ser Phe Ser Leu Gln Thr Pro Cys Ser Lys Gly Ser Glu
85 90 95
Leu Arg Met Ile Asn Lys Asn Pro Glu Arg Glu Lys Ala Gly Ser Pro
100 105 110
Ala Pro Ser Asn Arg Leu Asn Asp Ser Pro Thr Leu Lys Lys Leu Asp
115 120 125
Glu Leu Pro Ile Phe Lys Ser Glu Phe Ile Thr His Asp Ser His Asp
130 135 140
Ser Ile Lys Glu Leu Asp Ser Leu Ser Lys Val Lys Asn Asp Gln Leu
145 150 155 160
Arg Ser Phe Cys Pro Ile Glu Leu Asn Ile Asn Gly Ser Pro Gly Ala
165 170 175
Glu Ser Asp Leu Ala Thr Phe Cys Thr Ser Lys Thr Asp Ala Val Leu
180 185 190
Met Thr Ser Asp Asp Ser Val Thr Gly Ser Glu Leu Ser Pro Leu Val
195 200 205
Lys Ala Cys Met Leu Ser Ser Asn Gly Phe Gln Asn Ile Ser Arg Cys
210 215 220
Lys Glu Lys Asp Leu Asp Asp Thr Cys Met Leu His Lys Lys Ser Glu
225 230 235 240
Ser Pro Phe Arg Glu Thr Glu Pro Leu Val Ser Pro His Gln Asp Lys
245 250 255
Leu Met Ser Met Pro Val Met Thr Val Asp Tyr Ser Lys Thr Val Val
260 265 270
Lys Glu Pro Val Asp Thr Arg Val Ser Cys Cys Lys Thr Lys Asp Ser

275	280	285
Asp Ile Tyr Cys Thr Leu Asn Asp Ser Asn Pro Ser Leu Cys Asn Ser		
290	295	300
Glu Ala Glu Asn Ile Glu Pro Ser Val Met Lys Ile Ser Ser Asn Ser		
305	310	315
Phe Met Asn Val His Leu Glu Ser Lys Pro Val Ile Cys Asp Ser Arg		
325	330	335
Asn Leu Thr Asp His Ser Lys Phe Ala Cys Glu Glu Tyr Lys Gln Ser		
340	345	350
Ile Gly Ser Thr Ser Ser Ala Ser Val Asn His Phe Asp Asp Leu Tyr		
355	360	365
Gln Pro Ile Gly Ser Ser Gly Ile Ala Ser Ser Leu Gln Ser Leu Pro		
370	375	380
Pro Gly Ile Lys Val Asp Ser Leu Thr Leu Leu Lys Cys Gly Glu Asn		
385	390	395
Thr Ser Pro Val Leu Asp Ala Val Leu Lys Ser Lys Lys Ser Ser Glu		
405	410	415
Phe Leu Lys His Ala Gly Lys Glu Thr Ile Val Glu Val Gly Ser Asp		
420	425	430
Leu Pro Asp Ser Gly Lys Gly Phe Ala Ser Arg Glu Asn Arg Arg Asn		
435	440	445
Asn Gly Leu Ser Gly Lys Cys Leu Gln Glu Ala Gln Glu Glu Gly Asn		
450	455	460
Ser Ile Leu Pro Glu Arg Arg Gly Arg Pro Glu Ile Ser Leu Asp Glu		
465	470	475
Arg Gly Glu Gly Gly His Val His Thr Ser Asp Asp Ser Glu Val Val		
485	490	495
Phe Ser Ser Cys Asp Leu Asn Leu Thr Met Glu Asp Ser Asp Gly Val		
500	505	510

Thr Tyr Ala Leu Lys Cys Asp Ser Ser Gly His Ala Pro Glu Ile Val
 515 520 525
 Ser Thr Val His Glu Asp Tyr Ser Gly Ser Ser Glu Ser Ser Asn Asp
 530 535 540
 Glu Ser Asp Ser Glu Asp Thr Asp Ser Asp Asp Ser Ser Ile Pro Arg
 545 550 555 560
 Asn Arg Leu Gln Ser Val Val Val Val Pro Lys Asn Ser Thr Leu Pro
 565 570 575
 Met Glu Glu Thr Ser Pro Cys Ser Ser Arg Ser Ser Gln Ser Tyr Arg
 580 585 590
 His Tyr Ser Asp His Trp Glu Asp Glu Arg Leu Glu Ser Arg Arg His
 595 600 605
 Leu Tyr Glu Glu Lys Phe Glu Ser Ile Ala Ser Lys Ala Cys Pro Gln
 610 615 620
 Thr Asp Lys Phe Phe Leu His Lys Gly Thr Glu Lys Asn Pro Glu Ile
 625 630 635 640
 Ser Phe Thr Gln Ser Ser Arg Lys Gln Ile Asp Asn Arg Leu Pro Glu
 645 650 655
 Leu Ser His Pro Gln Ser Asp Gly Val Asp Ser Thr Ser His Thr Asp
 660 665 670
 Val Lys Ser Asp Pro Leu Gly His Pro Asn Ser Glu Glu Thr Val Lys
 675 680 685
 Ala Lys Ile Pro Ser Arg Gln Gln Glu Glu Leu Pro Ile Tyr Ser Ser
 690 695 700
 Asp Phe Glu Asp Val Pro Asn Lys Ser Trp Gln Gln Thr Thr Phe Gln
 705 710 715 720
 Asn Arg Pro Asp Ser Arg Leu Gly Lys Thr Glu Leu Ser Phe Ser Ser
 725 730 735
 Ser Cys Glu Ile Pro His Val Asp Gly Leu His Ser Ser Glu Glu Leu

740	745	750
Arg Asn Leu Gly Trp Asp Phe Ser Gln Glu Lys Pro Ser Thr Thr Tyr		
755	760	765
Gln Gln Pro Asp Ser Ser Tyr Gly Ala Cys Gly Gly His Lys Tyr Gln		
770	775	780
Gln Asn Ala Glu Gln Tyr Gly Gly Thr Arg Asp Tyr Trp Gln Gly Asn		
785	790	795
Gly Tyr Trp Asp Pro Arg Ser Gly Arg Pro Pro Gly Thr Gly Val Val		
805	810	815
Tyr Asp Arg Thr Gln Gly Gln Val Pro Asp Ser Leu Thr Asp Asp Arg		
820	825	830
Glu Glu Glu Glu Asn Trp Asp Gln Gln Asp Gly Ser His Phe Ser Asp		
835	840	845
Gln Ser Asp Lys Phe Leu Leu Ser Leu Gln Lys Asp Lys Gly Ser Val		
850	855	860
Gln Ala Pro Glu Ile Ser Ser Asn Ser Ile Lys Asp Thr Leu Ala Val		
865	870	875
880		
Asn		

<210> 3324

<211> 1018

<212> PRT

<213> Homo sapiens

<400> 3324

Met Cys Ile Cys Gly Thr Ala His Ser Val Leu Asp Glu Gly Pro Val

1

5

10

15

Arg Cys Arg Ala Gly Pro Arg Asp Leu Leu Glu Ala Arg Arg Pro Arg
 20 25 30
 Ala His Glu Cys Leu Gly Glu Ala Leu Arg Val Met His Gln Ile Ile
 35 40 45
 Ser Lys Tyr Pro Leu Leu Asn Thr Val Glu Thr Leu Thr Ala Ala Gly
 50 55 60
 Thr Leu Ile Ala Lys Val Lys Ala Phe His Tyr Glu Ser Asn Asn Asp
 65 70 75 80
 Leu Glu Lys Gln Glu Phe Glu Lys Ala Leu Glu Thr Ile Ala Val Ala
 85 90 95
 Phe Ser Ser Thr Val Ser Glu Phe Leu Met Gly Glu Val Asp Ser Ser
 100 105 110
 Thr Leu Leu Ala Val Pro Pro Gly Asp Ser Ser Gln Ser Met Glu Ser
 115 120 125
 Leu Tyr Gly Pro Gly Ser Glu Gly Thr Pro Pro Ser Leu Asp Asp Cys
 130 135 140
 Asp Ala Gly Cys Leu Pro Ala Glu Glu Val Asp Val Leu Leu Gln Arg
 145 150 155 160
 Cys Glu Gly Gly Val Asp Ala Ala Leu Leu Tyr Ala Lys Asn Met Ala
 165 170 175
 Lys Tyr Met Lys Asp Leu Ile Ser Tyr Leu Glu Lys Arg Thr Thr Leu
 180 185 190
 Glu Met Glu Phe Ala Lys Gly Leu Gln Lys Ile Ala His Asn Cys Arg
 195 200 205
 Gln Ser Val Met Gln Glu Pro His Met Pro Leu Leu Ser Ile Tyr Ser
 210 215 220
 Leu Ala Leu Glu Gln Asp Leu Glu Phe Gly His Ser Met Val Gln Ala
 225 230 235 240
 Val Gly Thr Leu Gln Thr Gln Thr Phe Met Gln Pro Leu Thr Leu Arg

245	250	255
Arg Leu Glu His Glu Lys Arg Arg Lys Glu Ile Lys Glu Ala Trp His		
260	265	270
Arg Ala Gln Arg Lys Leu Gln Glu Ala Glu Ser Asn Leu Arg Lys Ala		
275	280	285
Lys Gln Gly Tyr Val Gln Arg Cys Glu Asp His Asp Lys Ala Arg Phe		
290	295	300
Leu Val Ala Lys Ala Glu Glu Glu Gln Ala Gly Ser Ala Pro Gly Ala		
305	310	315
Gly Gly Thr Ala Thr Lys Thr Leu Asp Lys Arg Arg Arg Leu Glu Glu		
325	330	335
Glu Ala Lys Asn Lys Ala Glu Glu Ala Met Ala Thr Tyr Arg Thr Cys		
340	345	350
Val Ala Asp Ala Lys Thr Gln Gln Glu Leu Glu Asp Thr Lys Val Thr		
355	360	365
Ala Leu Arg Gln Ile Gln Glu Val Ile Arg Gln Ser Asp Gln Thr Ile		
370	375	380
Lys Ser Ala Thr Ile Ser Tyr Tyr Gln Met Met His Met Gln Thr Ala		
385	390	395
Pro Leu Pro Val His Phe Gln Met Leu Cys Glu Ser Ser Lys Leu Tyr		
405	410	415
Asp Pro Gly Gln Gln Tyr Ala Ser His Val Arg Gln Leu Gln Arg Asp		
420	425	430
Gln Glu Pro Asp Val His Tyr Asp Phe Glu Pro His Val Ser Ala Asn		
435	440	445
Ala Trp Ser Pro Val Met Arg Ala Arg Lys Ser Ser Phe Asn Val Ser		
450	455	460
Asp Val Ala Arg Pro Glu Ala Ala Gly Ser Pro Pro Glu Glu Gly Gly		
465	470	475
		480

Cys Thr Glu Gly Thr Pro Ala Lys Asp His Arg Ala Gly Arg Gly His
485 490 495
Gln Val His Lys Ser Trp Pro Leu Ser Ile Ser Asp Ser Asp Ser Gly
500 505 510
Leu Asp Pro Gly Pro Gly Ala Gly Asp Phe Lys Lys Phe Glu Arg Thr
515 520 525
Ser Ser Ser Gly Thr Met Ser Ser Thr Glu Glu Leu Val Asp Pro Asp
530 535 540
Gly Gly Ala Gly Ala Ser Ala Phe Glu Gln Ala Asp Leu Asn Gly Met
545 550 555 560
Thr Pro Glu Leu Pro Val Ala Val Pro Ser Gly Pro Phe Arg His Glu
565 570 575
Gly Leu Ser Lys Ala Ala Arg Thr His Arg Leu Arg Lys Leu Arg Thr
580 585 590
Pro Ala Lys Cys Arg Glu Cys Asn Ser Tyr Val Tyr Phe Gln Gly Ala
595 600 605
Glu Cys Glu Glu Cys Cys Leu Ala Cys His Lys Lys Cys Leu Glu Thr
610 615 620
Leu Ala Ile Gln Cys Gly His Lys Lys Leu Gln Gly Arg Leu Gln Leu
625 630 635 640
Phe Gly Gln Asp Phe Ser His Ala Ala Arg Ser Ala Pro Asp Gly Val
645 650 655
Pro Phe Ile Val Lys Lys Cys Val Cys Glu Ile Glu Arg Arg Ala Leu
660 665 670
Arg Thr Lys Gly Ile Tyr Arg Val Asn Gly Val Lys Thr Arg Val Glu
675 680 685
Lys Leu Cys Gln Ala Phe Glu Asn Gly Lys Glu Leu Val Glu Leu Ser
690 695 700
Gln Ala Ser Pro His Asp Ile Ser Asn Val Leu Lys Leu Tyr Leu Arg

705 710 715 720
Gln Leu Pro Glu Pro Leu Ile Ser Phe Arg Leu Tyr His Glu Leu Val
725 730 735
Gly Leu Ala Lys Asp Ser Leu Lys Ala Glu Ala Glu Ala Lys Ala Ala
740 745 750
Ser Arg Gly Arg Gln Asp Gly Ser Glu Ser Glu Ala Val Ala Val Ala
755 760 765
Leu Ala Gly Arg Leu Arg Glu Leu Leu Arg Asp Leu Pro Pro Glu Asn
770 775 780
Arg Ala Ser Leu Gln Tyr Leu Leu Arg His Leu Arg Arg Ile Val Glu
785 790 795 800
Val Glu Gln Asp Asn Lys Met Thr Pro Gly Asn Leu Gly Ile Val Phe
805 810 815
Gly Pro Thr Leu Leu Arg Pro Arg Pro Thr Glu Ala Thr Val Ser Leu
820 825 830
Ser Ser Leu Val Asp Tyr Pro His Gln Ala Arg Val Ile Glu Thr Leu
835 840 845
Ile Val His Tyr Gly Leu Val Phe Glu Glu Glu Pro Glu Glu Thr Pro
850 855 860
Gly Gly Gln Asp Glu Ser Ser Asn Gln Arg Ala Glu Val Val Val Gln
865 870 875 880
Val Pro Tyr Leu Glu Ala Gly Glu Ala Val Val Tyr Pro Leu Gln Glu
885 890 895
Ala Ala Ala Asp Gly Cys Arg Glu Ser Arg Val Val Ser Asn Asp Ser
900 905 910
Asp Ser Asp Leu Glu Glu Ala Ser Glu Leu Leu Ser Ser Ser Glu Ala
915 920 925
Ser Ala Leu Gly His Leu Ser Phe Leu Glu Gln Gln Gln Ser Glu Ala
930 935 940

Ser Leu Glu Val Ala Ser Gly Ser His Ser Gly Ser Glu Glu Gln Leu
 945 950 955 960
 Glu Ala Thr Ala Arg Glu Asp Gly Asp Gly Asp Glu Asp Gly Pro Ala
 965 970 975
 Gln Gln Leu Ser Gly Phe Asn Thr Asn Gln Ser Asn Asn Val Leu Gln
 980 985 990
 Ala Pro Leu Pro Pro Met Arg Leu Arg Gly Gly Arg Met Thr Leu Gly
 995 1000 1005
 Ser Cys Arg Glu Arg Gln Pro Glu Phe Val
 1010 1015

<210> 3325

<211> 1185

<212> PRT

<213> Homo sapiens

<400> 3325

Met Cys Asn Leu Gln Lys Leu Asn Leu Ala Gly Asn Glu Ile Glu His
 1 5 10 15
 Ile Pro Val Trp Leu Gly Lys Lys Leu Lys Ser Leu Arg Val Leu Asn
 20 25 30
 Leu Lys Gly Asn Lys Ile Ser Ser Leu Gln Asp Ile Ser Lys Leu Lys
 35 40 45
 Leu Leu Gln Asp Leu Ile Ser Leu Ile Leu Val Glu Asn Pro Val Val
 50 55 60
 Thr Leu Pro His Tyr Leu Gln Phe Thr Ile Phe His Leu Arg Ser Leu
 65 70 75 80
 Glu Ser Leu Glu Gly Gln Pro Val Thr Thr Gln Asp Arg Gln Glu Ala

85	90	95
Phe Glu Arg Phe Ser Leu Glu Glu Val Glu Arg Leu Glu Arg Asp Leu		
100	105	110
Glu Lys Lys Met Ile Glu Thr Glu Glu Leu Lys Ser Lys Gln Thr Arg		
115	120	125
Phe Leu Glu Glu Ile Lys Asn Gln Asp Lys Leu Asn Lys Ser Leu Lys		
130	135	140
Glu Glu Ala Met Leu Gln Lys Gln Ser Cys Glu Glu Leu Lys Ser Asp		
145	150	155
160		
Leu Asn Thr Lys Asn Glu Leu Leu Lys Gln Lys Thr Ile Glu Leu Thr		
165	170	175
Arg Ala Cys Gln Lys Gln Tyr Glu Leu Glu Gln Glu Leu Ala Phe Tyr		
180	185	190
Lys Ile Asp Ala Lys Phe Glu Pro Leu Asn Tyr Tyr Pro Ser Glu Tyr		
195	200	205
Ala Glu Ile Asp Lys Ala Pro Asp Glu Ser Pro Tyr Ile Gly Lys Ser		
210	215	220
Arg Tyr Lys Arg Asn Met Phe Ala Thr Glu Ser Tyr Ile Ile Asp Ser		
225	230	235
240		
Ala Gln Ala Val Gln Ile Lys Lys Met Glu Pro Asp Glu Gln Leu Arg		
245	250	255
Asn Asp His Met Asn Leu Arg Gly His Thr Pro Leu Asp Thr Gln Leu		
260	265	270
Glu Asp Lys Glu Lys Lys Ile Ser Ala Ala Gln Thr Arg Leu Ser Glu		
275	280	285
Leu His Asp Glu Ile Glu Lys Ala Glu Gln Gln Ile Leu Arg Ala Thr		
290	295	300
Glu Glu Phe Lys Gln Leu Glu Glu Ala Ile Gln Leu Lys Lys Ile Ser		
305	310	315
320		

Glu Ala Gly Lys Asp Leu Leu Tyr Lys Gln Leu Ser Gly Arg Leu Gln
325 330 335
Leu Val Asn Lys Leu Arg Gln Glu Ala Leu Asp Leu Glu Leu Gln Met
340 345 350
Glu Lys Gln Lys Gln Glu Ile Ala Gly Lys Gln Lys Glu Ile Lys Asp
355 360 365
Leu Gln Ile Ala Ile Asp Ser Leu Asp Ser Lys Asp Pro Lys His Ser
370 375 380
His Met Lys Ala Gln Lys Ser Gly Lys Glu Gln Gln Leu Asp Ile Met
385 390 395 400
Asn Lys Gln Tyr Gln Gln Leu Glu Ser Arg Leu Asp Glu Ile Leu Ser
405 410 415
Arg Ile Ala Lys Glu Thr Glu Glu Ile Lys Asp Leu Glu Glu Gln Leu
420 425 430
Thr Glu Gly Gln Ile Ala Ala Asn Glu Ala Leu Lys Lys Asp Leu Glu
435 440 445
Gly Val Ile Ser Gly Leu Gln Glu Tyr Leu Gly Thr Ile Lys Gly Gln
450 455 460
Ala Thr Gln Ala Gln Asn Glu Cys Arg Lys Leu Arg Asp Glu Lys Glu
465 470 475 480
Thr Leu Leu Gln Arg Leu Thr Glu Val Glu Gln Glu Arg Asp Gln Leu
485 490 495
Glu Ile Val Ala Met Asp Ala Glu Asn Met Arg Lys Glu Leu Ala Glu
500 505 510
Leu Glu Ser Ala Leu Gln Glu Gln His Glu Val Asn Ala Ser Leu Gln
515 520 525
Gln Thr Gln Gly Asp Leu Ser Ala Tyr Glu Ala Glu Leu Glu Ala Arg
530 535 540
Leu Asn Leu Arg Asp Ala Glu Ala Asn Gln Leu Lys Glu Glu Leu Glu

545 550 555 560
Lys Val Thr Arg Leu Thr Gln Leu Glu Gln Ser Ala Leu Gln Ala Glu
 565 570 575
Leu Glu Lys Glu Arg Gln Ala Leu Lys Asn Ala Leu Gly Lys Ala Gln
 580 585 590
Phe Ser Glu Glu Lys Glu Gln Glu Asn Ser Glu Leu His Ala Lys Leu
 595 600 605
Lys His Leu Gln Asp Asp Asn Asn Leu Leu Lys Gln Gln Leu Lys Asp
 610 615 620
Phe Gln Asn His Leu Asn His Val Val Asp Gly Leu Val Arg Pro Glu
625 630 635 640
Glu Val Ala Ala Arg Val Asp Glu Leu Arg Arg Lys Leu Lys Leu Gly
 645 650 655
Thr Gly Glu Met Asn Ile His Ser Pro Ser Asp Val Leu Gly Lys Ser
 660 665 670
Leu Ala Asp Leu Gln Lys Gln Phe Ser Glu Ile Leu Ala Arg Ser Lys
 675 680 685
Trp Glu Arg Asp Glu Ala Gln Val Arg Glu Arg Lys Leu Gln Glu Glu
690 695 700
Met Ala Leu Gln Gln Glu Lys Leu Ala Thr Gly Gln Glu Glu Phe Arg
705 710 715 720
Gln Ala Cys Glu Arg Ala Leu Glu Ala Arg Met Asn Phe Asp Lys Arg
 725 730 735
Gln His Glu Ala Arg Ile Gln Gln Met Glu Asn Glu Ile His Tyr Leu
 740 745 750
Gln Glu Asn Leu Lys Ser Met Glu Glu Ile Gln Gly Leu Thr Asp Leu
 755 760 765
Gln Leu Gln Glu Ala Asp Glu Glu Lys Glu Arg Ile Leu Ala Gln Leu
770 775 780

Arg Glu Leu Glu Lys Lys Lys Lys Leu Glu Asp Ala Lys Ser Gln Glu
785 790 795 800
Gln Val Phe Gly Leu Asp Lys Glu Leu Lys Lys Leu Lys Lys Ala Val
805 810 815
Ala Thr Ser Asp Lys Leu Ala Thr Ala Glu Leu Thr Ile Ala Lys Asp
820 825 830
Gln Leu Lys Ser Leu His Gly Thr Val Met Lys Ile Asn Gln Glu Arg
835 840 845
Ala Glu Glu Leu Gln Glu Ala Glu Arg Phe Ser Arg Lys Ala Ala Gln
850 855 860
Ala Ala Arg Asp Leu Thr Arg Ala Glu Ala Glu Ile Glu Leu Leu Gln
865 870 875 880
Asn Leu Leu Arg Gln Lys Gly Glu Gln Phe Arg Leu Glu Met Glu Lys
885 890 895
Thr Gly Val Gly Thr Gly Ala Asn Ser Gln Val Leu Glu Ile Glu Lys
900 905 910
Leu Asn Glu Thr Met Glu Arg Gln Arg Thr Glu Ile Ala Arg Leu Gln
915 920 925
Asn Val Leu Asp Leu Thr Gly Ser Asp Asn Lys Gly Gly Phe Glu Asn
930 935 940
Val Leu Glu Glu Ile Ala Glu Leu Arg Arg Glu Val Ser Tyr Gln Asn
945 950 955 960
Asp Tyr Ile Ser Ser Met Ala Asp Pro Phe Lys Arg Arg Gly Tyr Trp
965 970 975
Tyr Phe Met Pro Pro Pro Pro Ser Ser Lys Val Ser Ser His Ser Ser
980 985 990
Gln Ala Thr Lys Asp Ser Gly Val Gly Leu Lys Tyr Ser Ala Ser Thr
995 1000 1005
Pro Val Arg Lys Pro Arg Pro Gly Gln Gln Asp Gly Lys Glu Gly Ser

1010 1015 1020
Gln Pro Pro Pro Ala Ser Gly Tyr Trp Val Tyr Ser Pro Ile Arg Ser
1025 1030 1035 1040
Gly Leu His Lys Leu Phe Pro Ser Arg Asp Ala Asp Ser Gly Gly Asp
1045 1050 1055
Ser Gln Glu Glu Ser Glu Leu Asp Asp Gln Glu Glu Pro Pro Phe Val
1060 1065 1070
Pro Pro Pro Gly Tyr Met Met Tyr Thr Val Leu Pro Asp Gly Ser Pro
1075 1080 1085
Val Pro Gln Gly Met Ala Leu Tyr Ala Pro Pro Pro Pro Leu Pro Asn
1090 1095 1100
Asn Ser Arg Pro Leu Thr Pro Gly Thr Val Val Tyr Gly Pro Pro Pro
1105 1110 1115 1120
Ala Gly Ala Pro Met Val Tyr Gly Pro Pro Pro Pro Asn Phe Ser Ile
1125 1130 1135
Pro Phe Ile Pro Met Gly Val Leu His Cys Asn Val Pro Glu His His
1140 1145 1150
Asn Leu Glu Asn Glu Val Ser Arg Leu Glu Asp Ile Met Gln His Leu
1155 1160 1165
Lys Ser Lys Lys Arg Glu Glu Arg Trp Met Arg Ala Ser Lys Arg Gln
1170 1175 1180
Ser
1185

<210> 3326

<211> 299

<212> PRT

<213> Homo sapiens

<400> 3326

Met Pro Glu Gly Ser Val Ser Ala Met Arg Thr Ser Pro Lys Ser Ser
 1 5 10 15
 Trp Pro Trp Cys Cys Ser Trp Ser Cys Ala Trp Ser Ser Ser Ser Pro
 20 25 30
 Pro Trp Arg Ser Pro Pro Ser Ala Thr Gly Thr Leu Cys Arg Ser Cys
 35 40 45
 Ser Leu Ala Pro Ser Gly Asp Leu Glu Val Leu Lys Ser Gln Glu Thr
 50 55 60
 Gly Cys Arg Asp Pro Leu Gln Leu Pro Gly Leu Leu Gly Pro Cys Ala
 65 70 75 80
 Leu Ser Pro Met Val Gly Ser Pro Ser Gly Arg Val Lys Leu Val Gly
 85 90 95
 Arg Arg Ser Val Val Gln Cys Ser Arg Cys Cys Ile Asp Pro Leu Ile
 100 105 110
 Phe Phe Val Phe Val Phe Ile Leu Phe Cys Phe Val Phe Glu Met Glu
 115 120 125
 Ser Cys Ser Val Thr Gln Ala Gly Val Gln Trp Cys Asp Asp Leu Gly
 130 135 140
 Ser Leu Gln Pro Pro Pro Pro Gly Phe Ser Cys Leu Ser Leu Pro Gly
 145 150 155 160
 Ser Trp Asp Tyr Arg His Pro Pro Pro His Pro Ala Asn Phe Cys Ile
 165 170 175
 Phe Ser Arg Asp Glu Val Ser Thr Pro Thr Gln Ala Gly Val Lys Leu
 180 185 190
 Leu Thr Ala Ser Asp Leu Pro Thr Leu Ala Ser Gln Ser Val Ala Ile
 195 200 205
 Thr Gly Val Ser His His Ala Gln Pro Asn Pro Leu Ile Phe Cys Phe

210	215	220
Ser Ser Ser Thr Val Arg Lys Ala Phe Asp Arg Gly Pro Arg Arg Trp		
225	230	235
Gln His Gly Gly Gly Leu Thr Val Trp Val Val Val Lys Ala Leu Glu		
245	250	255
Ser Gln Leu Gln Arg Glu Asp Val Asp Leu Arg Asp Gly Gln Cys His		
260	265	270
Leu His Arg Arg Leu Glu Ala Pro Ala Trp Gly Asn Leu Leu Gly Lys		
275	280	285
Glu Gly Ser Lys Arg Gly Thr Met Lys Gln Asn		
290	295	

<210> 3327

<211> 131

<212> PRT

<213> Homo sapiens

<400> 3327

Met Glu Asp Phe Asn Thr Pro Pro Thr Ala Val Ser Arg Leu Val Arg
1 5 10 15
Gln Ile Ile Arg Gln Lys Thr Asn Asn Glu Thr Val Asp Ser Asn Trp
20 25 30
Ala Leu Asp Gln Thr Asp Leu Ile Asp Ile Tyr Arg Ile Leu His Pro
35 40 45
Glu Thr Thr Glu Cys Thr Phe Phe Ser Phe Ala His Gly Thr Phe Ser
50 55 60
Lys Ile Asp His Met Leu Ser His Lys Ile Ser Leu Asn Lys Phe Leu
65 70 75 80

Lys Ile Thr Thr Ile Leu Ser Val Phe Ser Asp His Cys Gly Ile Lys
 85 90 95
 Leu Glu Val Asn Ile Lys Asn Ser Gln Asn His Arg Gly Thr Trp Lys
 100 105 110
 Leu Asn Asn Leu Leu Leu Lys Asp Phe Cys Val Asn Asn Arg Ile Lys
 115 120 125
 Ala Glu Ile
 130

<210> 3328

<211> 258

<212> PRT

<213> Homo sapiens

<400> 3328

Met Leu Ser Lys Leu Glu Lys Ser Asp Ser His Gln Phe Arg Val Met
 1 5 10 15
 Ala Ala Val Leu Arg His Cys Leu Leu Ile Val Gly Pro Thr Glu Asp
 20 25 30
 Lys Thr Glu Glu Leu His Ser Asn Ala Val Asn Leu Leu Ser Asn Val
 35 40 45
 Pro Val Ser Cys Leu Asp Val Leu Ile Cys Pro Leu Thr His Glu Glu
 50 55 60
 Thr Ala Gln Glu Ala Thr Thr Leu Asp Glu Leu Pro Ser Asn Lys Thr
 65 70 75 80
 Ala Glu Lys Glu Thr Val Leu Lys Asn Asn Thr Met Val Tyr Asn Gly
 85 90 95
 Met Asn Met Glu Ala Ile His Val Leu Leu Asn Phe Met Glu Lys Arg

100	105	110	
Ile Asp Lys Gly Ser Ser Tyr Arg Glu Gly Leu Thr Pro Val Leu Ser			
115	120	125	
Leu Leu Thr Glu Cys Ser Arg Ala His Arg Asn Ile Arg Lys Phe Leu			
130	135	140	
Lys Asp Gln Val Leu Pro Pro Leu Arg Asp Val Thr Asn Arg Pro Glu			
145	150	155	160
Val Gly Ser Thr Val Arg Asn Lys Leu Val Arg Leu Met Thr His Val			
165	170	175	
Asp Leu Gly Val Lys Gln Ile Ala Ala Glu Phe Leu Phe Val Leu Cys			
180	185	190	
Lys Glu Arg Val Asp Ser Leu Leu Lys Tyr Thr Gly Tyr Gly Asn Ala			
195	200	205	
Ala Gly Leu Leu Ala Ala Arg Gly Leu Leu Ala Gly Gly Arg Gly Asp			
210	215	220	
Asn Trp Tyr Ser Glu Asp Glu Asp Thr Asp Thr Glu Glu Tyr Lys Asn			
225	230	235	240
Ala Lys Pro Asn Ser Ile Glu Phe Glu Glu Arg Ser His Leu Ser Arg			
245	250	255	
Gly Lys			

<210> 3329

<211> 144

<212> PRT

<213> Homo sapiens

<400> 3329

Met Ala Pro Pro Trp Val Cys Ser Ser Thr Thr Leu Glu Leu Glu Gln
 1 5 10 15
 Asp Leu Ser Ser Pro Ser Cys Gln Leu Pro Asp Pro Arg Thr Thr Thr
 20 25 30
 Thr Leu Leu His Pro Gly Ser Val Ala Pro Arg Pro Ser Asp Arg Ile
 35 40 45
 Lys Thr Ser Pro Pro Trp Val Ala Ser Phe Arg Thr Leu Lys Leu Gln
 50 55 60
 Gln Asn Cys Ser Ser Leu Gly Arg Gln Leu His Asp Pro His Asn Arg
 65 70 75 80
 Thr Arg Pro Leu Leu Pro Gly Ser Pro Ala Ser Gly Pro Leu Asn Tyr
 85 90 95
 Asn Lys Ile Ala Pro Pro Trp Val Gly Ser Ser Thr Thr Leu Lys Leu
 100 105 110
 Gln Gln Asp Phe Ser Ser Pro Ser Cys Gln Leu Pro Asp Pro Arg Ile
 115 120 125
 Thr Thr Thr Leu Pro Leu Pro Gly Ser Ala Ala Pro Arg Pro Ser Asp
 130 135 140

<210> 3330

<211> 1124

<212> PRT

<213> Homo sapiens

<400> 3330

Met Ser Ser Tyr Phe Trp Ala Gln Asn Glu Ser Asn Arg Pro Asp Leu
 1 5 10 15
 Leu Cys Gly Gln Pro Ala Asp Tyr Leu Val Glu Glu Lys His Phe Thr

20	25	30	
Thr Leu Val Cys Phe Ile Val Val Leu Gly Gly Leu Leu Lys Met Cys			
35	40	45	
Leu Lys Asn Cys Glu Val Ile Val Leu Thr Ile Leu Ser Leu Ser Gly			
50	55	60	
Phe Val Ile Gly His Met Ala Tyr Asn Ser Val Glu Val His Gln Ile			
65	70	75	80
Val Tyr Pro Leu Leu Arg Thr Ser Ser Phe Ser Leu Tyr Ser Tyr Phe			
85	90	95	
Ser Pro Leu Ile Ile Phe Met Val Ala Leu Asp Val Glu Phe Tyr Thr			
100	105	110	
Leu Lys Lys Met Phe Trp Gln Val Leu Leu Thr Gly Leu Ile Ser Phe			
115	120	125	
Ser Thr Ala Ser Ile Ile Ile Gly Tyr Val Val Ile Lys Phe Asn Lys			
130	135	140	
Asp Ser Trp Asp Leu Gln Ser Cys Leu Leu Phe Ser Ile Thr Leu Gly			
145	150	155	160
Ile Ile Asp Pro Leu Arg Ser Val Asn Ser Leu Lys Thr Ile Gly Ile			
165	170	175	
Ser Lys Ile Tyr Ile Asp Leu Ile Arg Gly Glu Ser Leu Ile Ile Cys			
180	185	190	
Ser Ile Ala Ser Ile Phe Phe Gly Asn Phe Arg Gly Asn Arg Ile His			
195	200	205	
Phe Ser Ile Phe Arg Asp Leu His Val Gly Ile Glu Leu Ser Tyr Asp			
210	215	220	
Ile Leu Gly Ser Ile Ile Phe Gly Tyr Trp Cys Ala Lys Ile Ile Gln			
225	230	235	240
Cys Ile Leu Ala Asp Val Phe Ser Asn Met Leu Thr Asn Ile Ile Leu			
245	250	255	

Cys Phe Ser Met Val Tyr Met Thr Phe Tyr Ile Val Glu Phe Leu Gly
 260 265 270
 Met Ser Gly Thr Leu Ala Leu Ala Ala Val Gly Leu Asn Leu Asp Ser
 275 280 285
 Leu Thr Phe Lys Pro Lys Ile Glu Leu Val Ile Thr Lys Phe Leu Arg
 290 295 300
 Ile Phe Ser Ser Val Tyr Glu His Leu Ile Tyr Ala Phe Phe Gly Ile
 305 310 315 320
 Val Ile Gly Cys Gly Glu Leu Ser His Tyr Glu Phe His Thr Ile Pro
 325 330 335
 Phe Ile Phe Ile Leu Phe Thr Thr Val Asn Leu Val Arg Leu Leu Thr
 340 345 350
 Ile Leu Leu Val Ser Pro Ile Leu Met His Ser Asn Tyr Glu Tyr Asn
 355 360 365
 Trp Arg Trp Gly Val Val Ile Thr Trp Ser Gly Ile Lys Gly Val Phe
 370 375 380
 Asn Leu Leu Trp Ala Pro Asp Val Tyr Asn Leu Ala Glu Arg Lys Val
 385 390 395 400
 Glu Val Pro Gln Met Phe Ile Leu Tyr Val Gln Val Ile Ser Leu Leu
 405 410 415
 Thr Met Gly Ile Asn Ser Tyr Val Met Thr Gln Ser Ala Arg Lys Leu
 420 425 430
 Asp Leu Cys Val Leu Ser Leu Pro Arg Gln Met Ile Leu Gln Asn Ala
 435 440 445
 Thr Gln His Ile Gln Glu Ile Val Gln Asn Thr Ile Thr Leu Phe Lys
 450 455 460
 Thr Glu Lys Ile Leu Thr Asn Val Asn Trp Thr Leu Val Glu Asp Lys
 465 470 475 480
 Thr Arg Ile Glu Tyr Ile Pro Phe Ser His Val Ser His Asn Asp Met

485	490	495
Lys Thr Glu Ser Thr Thr Asp Glu Ala Leu Met Glu Glu Ala Arg Leu		
500	505	510
His Val Ala Ala Ile Gln Met Ser Ser Phe Glu Lys Gln Arg Asn Asn		
515	520	525
Gly Ile Leu Glu Ile Glu Ala Ala Arg Ile Leu Ile Gly Ala Ala Lys		
530	535	540
Cys Tyr Tyr Ser Ile Gln Gly Lys Phe Met Ser Ile Tyr Asp Val Ser		
545	550	555
Thr Tyr Met Arg Thr Arg Ser Trp Leu Ile Lys Phe Lys Asn Val Leu		
565	570	575
Thr Phe Leu Glu Tyr Cys Ile Glu Lys Val His Phe Ile Pro Pro Glu		
580	585	590
Ser Asn Thr Phe Leu Thr Phe Ile Phe His Ile Val Phe Ser Glu Glu		
595	600	605
Phe Glu Tyr Thr Gly Gln Ile Ile Asn Leu Ile Tyr Ile Tyr Pro Met		
610	615	620
Ile Ile His Leu Trp Pro Met Ala Arg Gly Leu Asn Val Ser Ala Leu		
625	630	635
Ile Ser Ile Asn Tyr Tyr Phe Met Phe Leu Tyr Val Leu Glu Ser Thr		
645	650	655
Leu Lys Ile Ile Ile Leu Lys Arg Lys Tyr Phe Gln Gln Cys Trp Asn		
660	665	670
Thr Leu Glu Phe Phe Ile Leu Val Ile Gly Ile Ile Asp Ile Phe Cys		
675	680	685
Val Tyr Phe Val Lys Leu Arg Pro Asp Asn Leu Ala Leu Ile Gln Leu		
690	695	700
Thr Val Ile Met Gly Tyr Leu Arg Ile Ile Arg Phe Leu Pro Leu Phe		
705	710	715
		720

Lys Ile Ile Val Pro Ile Leu Ile Arg Ile Ala Asp Val Gln Ile Lys
725 730 735
Lys Arg Leu Ser Leu Met Tyr Ser Ile Thr Lys Gly Tyr Ile Lys Ser
740 745 750
Gln Glu Asp Ala Lys Leu Leu Ile Lys Gln Ile Ala Val Cys Glu Ser
755 760 765
Ile Tyr Gln Lys Leu Cys Glu Ile Leu Glu Thr Asn Lys Gln Asp Ala
770 775 780
Val Lys Glu Leu Val Leu Met Glu His Glu Gly Arg Asp Val Val Ile
785 790 795 800
Ala Leu Lys Thr Lys Gln Ala Ile Arg Asn Val Ile Ala Lys Ala Leu
805 810 815
Lys Asn Leu Thr Phe Leu Cys Ser Arg Gly Ile Ile Asp Lys His Glu
820 825 830
Val Ile Glu Ile Asn Lys Val Leu Leu Lys Lys Leu Lys Ala Leu Asn
835 840 845
Asn Phe Pro Lys Ala Ile Pro Pro Pro Thr Pro Asp Ile Tyr Leu His
850 855 860
Asn Ile Ile Trp Leu Glu Gly Lys Asp Val Leu Ile Asp Phe Phe Lys
865 870 875 880
Glu Arg Ala Lys Leu Ala Cys Phe Asp Ser Gly Asp Thr Ile Cys Lys
885 890 895
Gly Gly Glu Met Pro Gln Gly Ile Tyr Leu Ile Ile Ser Gly Met Ala
900 905 910
Ile Leu His Ser Leu Ser Pro Thr Phe Gly Ile Glu Ser Asn Gln Arg
915 920 925
Cys Asp Arg Gly Ser Arg Asp Met Phe Thr Glu Phe Cys Thr Thr Gly
930 935 940
Asp Ile Ile Gly Glu Leu Ser Cys Leu Leu Lys Arg Glu Ile Glu Tyr

945 950 955 960
Thr Val Ile Cys Glu Thr Ser Leu Gln Ala Cys Phe Ile Ser Leu Glu
 965 970 975
Asp Leu Tyr Glu Gly Phe Asp Ala Phe Trp Pro Ser Leu Glu Tyr Lys
 980 985 990
Ile Trp Leu Lys Leu Ala Leu Ser Thr Ala Tyr Gln Tyr Phe Glu Ser
 995 1000 1005
Ser Leu Ile Asp Glu Asp Leu Arg Phe Gln Asn Cys Val Met Phe Asn
 1010 1015 1020
Gln Ala Tyr Val Glu Thr Leu Ser Ser Tyr Ser Asp Met Ile Ile Asp
1025 1030 1035 1040
Asn Met Thr Met Lys Phe Val Ile Ile Val Tyr Gly Ser Val Ile Asp
 1045 1050 1055
Thr Lys Thr Glu Glu Pro Tyr Phe Ala Pro Cys Ile Ile Pro Thr Thr
 1060 1065 1070
Cys Glu Gln Val Gln Gly Thr Ser Asp Leu Ser Lys Leu Leu Ile Ile
 1075 1080 1085
Gln Ala Ser Glu Leu Thr Gln Arg Asn Ser Asn Thr Asn Val Met Ala
 1090 1095 1100
Ser Val Asn Thr Val Phe Glu Gln Pro Gly Lys Asn Ile Asn Gly Arg
1105 1110 1115 1120
Gln Lys Met Ser

<210> 3331

<211> 305

<212> PRT

<213> Homo sapiens

<400> 3331

Met Asp Asn Arg Asn Thr Gln Met Tyr Thr Glu Gly Arg Thr Lys Ala
 1 5 10 15
 Pro Gly Thr Gln Pro Ser Pro Gly Leu Arg Ile Thr Ile Lys Arg Ala
 20 25 30
 Gly Val Glu Pro Ile Ile Pro Gly Val Ser Lys Val Met Phe Pro Asp
 35 40 45
 Ala Ser Glu Val Gly Ser Lys Lys His Leu Ser Ser Ala Ser Arg Gly
 50 55 60
 Pro Glu Lys Gly Pro Arg Leu Arg Asp Ala Phe Glu Lys Gly Pro Ser
 65 70 75 80
 Glu Leu Arg Ile Gln Glu Gln Gly Pro Pro Ala Arg Pro Gly Lys Lys
 85 90 95
 Gln Pro Ser Trp Val Pro Gln Glu Gly Ser Gln Glu Leu Gln Ala Gly
 100 105 110
 Gln Asp Gln Ser Glu Leu Gly Leu Leu Pro Ser Trp Val Pro Glu Val
 115 120 125
 Pro Glu Gly Leu Gln Gln Leu Gly Ser Gly Lys Glu Ile Lys Gly Gln
 130 135 140
 Gln Gly Arg Gln Arg Asn Arg Gly Ile Gly Glu Asp Gln Pro Pro Glu
 145 150 155 160
 Ser Cys Gln Gly Ser Gly Tyr Gln Ser Thr Pro Ser His Gln Ala Asp
 165 170 175
 Met Val Gln Pro Ala Glu Pro Cys Cys Arg Leu Ala Ser His Gly Gln
 180 185 190
 Pro Leu Gly Gly Lys His Pro Lys Glu Ala Gly Val Pro His Ile Arg
 195 200 205
 Pro Gln Glu Ala Pro Pro Glu Pro Ser Pro Gly Gly His Gly Asp Ser

210	215	220
Ser Gln Glu Ala Met Pro Pro Met Ser Val Val Ala Pro Glu Glu Lys		
225	230	235
Thr Val Asn Pro Phe Leu Pro Ser Thr Pro Gly Pro Lys Lys Ala Lys		
245	250	255
Gly Gly Arg Ala Asp Asn Arg His Glu Gln Ser Gln Val Val Gly Pro		
260	265	270
Gly Val Thr His Ser Arg Pro Trp Leu Ser Arg Ala Arg Trp Asn Thr		
275	280	285
Leu Val Ile Pro Ala Leu Trp Glu Ala Lys Ala Glu Asp His Leu Arg		
290	295	300
Arg		
305		

<210> 3332

<211> 891

<212> PRT

<213> Homo sapiens

<400> 3332

Met Thr Ala Ile Leu Asn Gln Met Gly Asp Gln His Tyr Ser Phe Tyr
1 5 10 15
Ile Glu Thr Phe Gln Thr Ser Ser Glu Leu Val Asp Phe Leu Met Glu
20 25 30
Thr Phe Ile Met Phe Lys Asp Leu Ile Gly Lys Asn Val Tyr Pro Gly
35 40 45
Asp Trp Met Ala Met Ser Met Val Gln Asn Arg Val Phe Leu Arg Ala
50 55 60

Ile	Asn	Lys	Phe	Ala	Glu	Thr	Met	Asn	Gln	Lys	Phe	Leu	Glu	His	Thr
65					70					75					80
Asn	Phe	Glu	Phe	Gln	Leu	Trp	Asn	Asn	Tyr	Phe	His	Leu	Ala	Val	Ala
				85					90					95	
Phe	Ile	Thr	Gln	Asp	Ser	Leu	Gln	Leu	Glu	Gln	Phe	Ser	His	Ala	Lys
			100					105					110		
Tyr	Asn	Lys	Ile	Leu	Asn	Lys	Tyr	Gly	Asp	Met	Arg	Arg	Leu	Ile	Gly
	115						120					125			
Phe	Ser	Ile	Arg	Asp	Met	Trp	Tyr	Lys	Leu	Gly	Gln	Asn	Lys	Ile	Cys
	130					135						140			
Phe	Ile	Pro	Gly	Met	Val	Gly	Pro	Ile	Leu	Glu	Met	Thr	Leu	Ile	Pro
145				150					155					160	
Glu	Ala	Glu	Leu	Arg	Lys	Ala	Thr	Ile	Pro	Ile	Phe	Phe	Asp	Met	Met
			165					170					175		
Leu	Cys	Glu	Tyr	Gln	Arg	Ser	Gly	Asp	Phe	Lys	Lys	Phe	Glu	Asn	Glu
		180					185						190		
Ile	Ile	Leu	Lys	Leu	Asp	His	Glu	Val	Glu	Gly	Gly	Arg	Gly	Asp	Glu
	195						200					205			
Gln	Tyr	Met	Gln	Leu	Leu	Glu	Ser	Ile	Leu	Met	Glu	Cys	Ala	Ala	Glu
	210					215					220				
His	Pro	Thr	Ile	Ala	Lys	Ser	Val	Glu	Asn	Phe	Val	Asn	Leu	Val	Lys
225				230						235				240	
Gly	Leu	Leu	Glu	Lys	Leu	Leu	Asp	Tyr	Arg	Gly	Val	Met	Thr	Asp	Glu
			245						250				255		
Ser	Lys	Asp	Asn	Arg	Met	Ser	Cys	Thr	Val	Asn	Leu	Leu	Asn	Phe	Tyr
		260					265						270		
Lys	Asp	Asn	Asn	Arg	Glu	Glu	Met	Tyr	Ile	Arg	Tyr	Leu	Tyr	Lys	Leu
	275						280					285			
Arg	Asp	Leu	His	Leu	Asp	Cys	Asp	Asn	Tyr	Thr	Glu	Ala	Ala	Tyr	Thr

290 295 300
Leu Leu Leu His Thr Trp Leu Leu Lys Trp Ser Asp Glu Gln Cys Ala
305 310 315 320
Ser Gln Val Met Gln Thr Gly Gln Gln His Pro Gln Thr His Arg Gln
325 330 335
Leu Lys Glu Thr Leu Tyr Glu Thr Ile Ile Gly Tyr Phe Asp Lys Gly
340 345 350
Lys Met Trp Glu Glu Ala Ile Ser Leu Cys Lys Glu Leu Ala Glu Gln
355 360 365
Tyr Glu Met Glu Ile Phe Asp Tyr Glu Leu Leu Ser Gln Asn Leu Ile
370 375 380
Gln Gln Ala Lys Phe Tyr Glu Ser Ile Met Lys Ile Leu Arg Pro Lys
385 390 395 400
Pro Asp Tyr Phe Ala Val Gly Tyr Tyr Gly Gln Gly Phe Pro Ser Phe
405 410 415
Leu Arg Asn Lys Val Phe Ile Tyr Arg Gly Lys Glu Tyr Glu Arg Arg
420 425 430
Glu Asp Phe Gln Met Gln Leu Met Thr Gln Phe Pro Asn Ala Glu Lys
435 440 445
Met Asn Thr Thr Ser Ala Pro Gly Asp Asp Val Lys Asn Ala Pro Gly
450 455 460
Gln Tyr Ile Gln Cys Phe Thr Val Gln Pro Val Leu Asp Glu His Pro
465 470 475 480
Arg Phe Lys Asn Lys Pro Val Pro Asp Gln Ile Ile Asn Phe Tyr Lys
485 490 495
Ser Asn Tyr Val Gln Arg Phe His Tyr Ser Arg Pro Val Arg Arg Gly
500 505 510
Thr Val Asp Pro Glu Asn Glu Phe Ala Ser Met Trp Ile Glu Arg Thr
515 520 525

Ser Phe Val Thr Ala Tyr Lys Leu Pro Gly Ile Leu Arg Trp Phe Glu
530 535 540

Val Val His Met Ser Gln Thr Thr Ile Ser Pro Leu Glu Asn Ala Ile
545 550 555 560

Glu Thr Met Ser Thr Ala Asn Glu Lys Ile Leu Met Met Ile Asn Gln
565 570 575

Tyr Gln Ser Asp Glu Thr Leu Pro Ile Asn Pro Leu Ser Met Leu Leu
580 585 590

Asn Gly Ile Val Asp Pro Ala Val Met Gly Gly Phe Ala Lys Tyr Glu
595 600 605

Lys Ala Phe Phe Thr Glu Glu Tyr Val Arg Asp His Pro Glu Asp Gln
610 615 620

Asp Lys Leu Thr His Leu Lys Asp Leu Ile Ala Trp Gln Ile Pro Phe
625 630 635 640

Leu Gly Ala Gly Ile Lys Ile His Glu Lys Arg Val Ser Asp Asn Leu
645 650 655

Arg Pro Phe His Asp Arg Met Glu Glu Cys Phe Lys Asn Leu Lys Met
660 665 670

Lys Val Glu Lys Glu Tyr Gly Val Arg Glu Met Pro Asp Phe Asp Asp
675 680 685

Arg Arg Val Gly Arg Pro Arg Ser Met Leu Arg Ser Tyr Arg Gln Met
690 695 700

Ser Ile Ile Ser Leu Ala Ser Met Asn Ser Asp Cys Ser Thr Pro Ser
705 710 715 720

Lys Pro Thr Ser Glu Ser Phe Asp Leu Glu Leu Ala Ser Pro Lys Thr
725 730 735

Pro Arg Val Glu Gln Glu Glu Pro Ile Ser Pro Gly Ser Thr Leu Pro
740 745 750

Glu Val Lys Leu Arg Arg Ser Lys Lys Arg Thr Lys Arg Ser Ser Val

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Trp Thr Ser Ser Asn Glu Thr Val Val Ile Val Thr Thr Lys Gly Val
 35 40 45
 Val Thr Ala Gly Gln Val Arg Gly Asn Ser Thr Val Leu Ala Arg Asp
 50 55 60
 Val Gln Asn Pro Phe Arg Tyr Gly Glu Ile Lys Ile His Val Leu Lys
 65 70 75 80
 Leu Asn Lys Met Glu Leu Leu Pro Phe His Ala Asp Val Glu Ile Gly
 85 90 95
 Gln Ile Ile Glu Ile Pro Ile Ala Met Tyr His Ile Asn Lys Glu Thr
 100 105 110
 Lys Glu Ala Met Ala Phe Thr Asp Cys Ser His Leu Ser Leu Asp Leu
 115 120 125
 Asn Met Asp Lys Gln Gly Val Phe Thr Leu Leu Lys Glu Gly Ile Gln
 130 135 140
 Arg Pro Gly Pro Met His Cys Ser Ser Thr His Ile Ala Ala Lys Ser
 145 150 155 160
 Leu Gly His Thr Leu Val Thr Val Ser Val Asn Glu Cys Asp Lys Tyr
 165 170 175
 Leu Glu Ser Ser Ala Thr Phe Ala Ala Tyr Glu Pro Leu Lys Ala Leu
 180 185 190
 Asn Pro Val Glu Val Ala Leu Val Thr Trp Gln Ser Val Lys Glu Met
 195 200 205
 Val Phe Glu Gly Gly Pro Arg Pro Trp Ile Leu Glu Pro Ser Arg Phe
 210 215 220
 Phe Leu Glu Leu Asn Ala Glu Lys Thr Glu Lys Ile Gly Ile Ala Gln
 225 230 235 240
 Val Trp Leu Pro Ser Lys Arg Lys Gln Asn Gln Tyr Ile Tyr Arg Ile
 245 250 255
 Gln Cys Leu Asp Leu Gly Glu Gln Val Leu Thr Phe Arg Ile Gly Asn

260	265	270
His Pro Gly Val Leu Asn Pro Ser Pro Ala Val Glu Val Leu Gln Val		
275	280	285
Arg Phe Ile Cys Ala His Pro Ala Ser Met Ser Val Thr Pro Val Tyr		
290	295	300
Lys Val Pro Ala Gly Ala Gln Pro Cys Pro Leu Pro Gln His Asn Lys		
305	310	315
Trp Leu Ile Pro Val Ser Arg Leu Arg Asp Thr Val Leu Glu Leu Ala		
325	330	335
Val Phe Asp Gln His Arg Arg Lys Phe Asp Asn Phe Ser Ser Leu Met		
340	345	350
Leu Glu Trp Lys Ser Ser Asn Glu Thr Leu Ala His Phe Glu Asp Tyr		
355	360	365
Lys Ser Val Glu Met Val Ala Lys Asp Asp Gly Ser Gly Gln Thr Arg		
370	375	380
Leu His Gly His Gln Ile Leu Lys Val His Gln Ile Lys Gly Thr Val		
385	390	395
Leu Ile Gly Val Asn Phe Val Gly Tyr Ser Glu Lys Lys Ser Pro Lys		
405	410	415
Glu Ile Ser Asn Leu Pro Arg Ser Val Asp Val Glu Leu Leu Leu Val		
420	425	430
Gly Asp Val Thr Val Val Pro Glu Asn Ala Thr Ile Tyr Asn His Pro		
435	440	445
Asp Val Lys Glu Thr Phe Ser Leu Val Glu Gly Ser Gly Tyr Phe Leu		
450	455	460
Val Asn Ser Ser Glu Gln Gly Val Val Thr Ile Thr Tyr Met Glu Ala		
465	470	475
Glu Ser Ser Val Glu Leu Val Pro Leu His Pro Gly Phe Phe Thr Leu		
485	490	495

Glu Val Tyr Asp Leu Cys Leu Ala Phe Leu Gly Pro Ala Thr Ala His
500 505 510
Leu Arg Val Ser Asp Ile Gln Glu Leu Glu Leu Asp Leu Ile Asp Lys
515 520 525
Val Glu Ile Asp Lys Thr Val Leu Val Thr Val Lys Val Leu Gly Ser
530 535 540
Ser Lys Arg Pro Phe Gln Asn Lys Tyr Phe Arg Asn Met Glu Leu Lys
545 550 555 560
Leu Gln Leu Ala Ser Ala Ile Val Thr Leu Thr Pro Met Glu Gln Gln
565 570 575
Asp Glu Tyr Ser Glu Asn Tyr Ile Leu Arg Ala Thr Thr Ile Gly Gln
580 585 590
Thr Thr Leu Val Ala Ile Ala Lys Asp Lys Met Gly Arg Lys Tyr Thr
595 600 605
Ser Thr Pro Arg His Ile Glu Val Phe Pro Pro Phe Arg Leu Leu Pro
610 615 620
Glu Lys Met Thr Leu Ile Pro Met Asn Met Met Gln Val Met Ser Glu
625 630 635 640
Gly Gly Pro Gln Pro Gln Ser Ile Val His Phe Ser Ile Ser Asn Gln
645 650 655
Thr Val Ala Val Val Asn Arg Arg Gly Gln Val Thr Gly Lys Ile Val
660 665 670
Gly Thr Ala Val Val His Gly Thr Ile Gln Thr Val Asn Glu Asp Thr
675 680 685
Gly Lys Val Ile Val Phe Ser Gln Asp Glu Val Gln Ile Glu Val Val
690 695 700
Gln Leu Arg Ala Val Arg Ile Leu Ala Ala Ala Thr Arg Leu Ile Thr
705 710 715 720
Ala Thr Lys Met Pro Val Tyr Val Met Gly Val Thr Ser Thr Gln Thr

725	730	735
Pro Phe Ser Phe Ser Asn Ala Asn Pro Gly Leu Thr Phe His Trp Ser		
740	745	750
Met Ser Lys Arg Asp Val Leu Asp Leu Val Pro Arg His Ser Glu Val		
755	760	765
Phe Leu Gln Leu Pro Val Glu His Asn Phe Ala Met Val Val His Thr		
770	775	780
Lys Ala Ala Gly Arg Thr Ser Ile Lys Val Thr Val His Cys Met Asn		
785	790	795
Ser Ser Ser Gly Gln Phe Glu Gly Asn Leu Leu Glu Leu Ser Asp Glu		
805	810	815
Val Gln Ile Leu Val Phe Glu Lys Leu Gln Leu Phe Tyr Pro Glu Cys		
820	825	830
Gln Pro Glu Gln Ile Leu Met Pro Ile Asn Ser Gln Leu Lys Leu His		
835	840	845
Thr Asn Arg Glu Gly Ala Ala Phe Val Ser Ser Arg Val Leu Lys Cys		
850	855	860
Phe Pro Asn Ser Ser Val Ile Glu Glu Asp Gly Glu Gly Leu Leu Lys		
865	870	875
Ala Gly Ser Ile Ala Gly Thr Ala Val Leu Glu Val Thr Ser Ile Glu		
885	890	895
Pro Phe Gly Val Asn Gln Thr Thr Ile Thr Gly Val Gln Val Ala Pro		
900	905	910
Val Thr Tyr Leu Arg Val Ser Ser Gln Pro Lys Leu Tyr Thr Ala Gln		
915	920	925
Gly Arg Thr Leu Ser Ala Phe Pro Leu Gly Met Ser Leu Thr Phe Thr		
930	935	940
Val Gln Phe Tyr Asn Ser Ile Gly Glu Lys Phe His Thr His Asn Thr		
945	950	955
		960

Gln Leu Tyr Leu Ala Leu Asn Arg Asp Asp Leu Leu His Ile Gly Pro

965

970

975

Gly Asn Lys Asn Tyr Thr Tyr Met Ala Gln Ala Val Asn Arg Gly Leu

980

985

990

Thr Leu Val Gly Leu Trp Asp Arg Arg His Pro Gly Met Ala Asp Tyr

995

1000

1005

Ile Pro Val Ala Val Glu His Ala Ile Glu Pro Asp Thr Lys Leu Thr

1010

1015

1020

Phe Val Gly Asp Ile Ile Cys Phe Ser Thr His Leu Val Ser Gln His

1025

1030

1035

1040

Gly Glu Pro Gly Ile Trp Met Ile Ser Ala Asn Asn Ile Leu Gln Thr

1045

1050

1055

Asp Ile Val Thr Gly Val Gly Val Ala Arg Ser Pro Gly Thr Ala Met

1060

1065

1070

Ile Phe His Asp Ile Pro Gly Val Val Lys Thr Tyr Arg Glu Val Val

1075

1080

1085

Val Asn Ala Ser Ser Arg Leu Met Leu Ser Tyr Asp Leu Lys Thr Tyr

1090

1095

1100

Leu Thr Asn Thr Leu Asn Ser Thr Val Phe Lys Leu Phe Ile Thr Thr

1105

1110

1115

1120

Gly Arg Asn Gly Val Asn Leu Lys Gly Phe Cys Thr Pro Asn Gln Ala

1125

1130

1135

Leu Ala Ile Thr Lys Val Leu Leu Pro Ala Thr Leu Met Leu Cys His

1140

1145

1150

Val Gln Phe Ser Asn Thr Leu Leu Asp Ile Pro Ala Ser Lys Val Phe

1155

1160

1165

Gln Val His Ser Asp Phe Ser Met Glu Lys Gly Val Tyr Val Cys Ile

1170

1175

1180

Ile Lys Val Arg Pro Gln Ser Glu Glu Leu Leu Gln Ala Leu Ser Val

1185 1190 1195 1200
Ala Asp Thr Ser Val Tyr Gly Trp Ala Thr Leu Val Ser Glu Arg Ser
 1205 1210 1215
Lys Asn Gly Met Arg Arg Ile Leu Ile Pro Phe Ile Pro Ala Phe Tyr
 1220 1225 1230
Ile Asn Gln Ser Glu Leu Val Leu Ser His Lys Gln Asp Ile Gly Glu
 1235 1240 1245
Ile Arg Val Leu Gly Val Asp Arg Val Leu Arg Lys Leu Glu Val Ile
 1250 1255 1260
Ser Ser Ser Pro Val Leu Val Val Ala Gly His Ser His Ser Pro Leu
1265 1270 1275 1280
Thr Pro Gly Leu Ala Ile Tyr Ser Val Arg Val Val Asn Phe Thr Ser
 1285 1290 1295
Phe Gln Gln Met Ala Ser Pro Val Phe Ile Asn Ile Ser Cys Val Leu
 1300 1305 1310
Thr Ser Gln Ser Glu Ala Val Val Val Arg Ala Met Lys Asp Lys Leu
 1315 1320 1325
Gly Ala Asp His Cys Glu Asp Ser Ala Ile Leu Lys Arg Phe Thr Gly
 1330 1335 1340
Ser Tyr Gln Ile Leu Leu Leu Thr Leu Phe Ala Val Leu Ala Ser Thr
1345 1350 1355 1360
Ala Ser Ile Phe Leu Ala Tyr Asn Ala Phe Leu Asn Lys Ile Gln Thr
 1365 1370 1375
Val Pro Val Val Tyr Val Pro Thr Leu Gly Thr Pro Gln Pro Gly Phe
 1380 1385 1390
Phe Asn Ser Thr Ser Ser Pro Pro His Phe Met Ser Leu Gln Pro Pro
 1395 1400 1405
Leu Ala Gln Ser Arg Leu Gln His Trp Leu Trp Ser Ile Arg His
 1410 1415 1420

<210> 3334

<211> 139

<212> PRT

<213> Homo sapiens

<400> 3334

Met Gln Val Leu His Gly His Gln Phe Ser Asn Gln Trp Asp Gln Ser

1 5 10 15

Leu Arg Ile Phe Trp Asp Met Trp His Glu Ser Thr Glu Phe Arg Ala

20 25 30

Glu Pro Pro Asn Gly Phe Pro Lys Gly Leu Cys Pro Val Ala Phe Pro

35 40 45

Pro Gly Arg Asp Lys Gly Pro Arg Asp Arg Thr Ser Ser Arg His Leu

50 55 60

Val Ser Ser Val Trp Leu Gly Lys Ala Pro Glu Pro Leu Ile Leu Pro

65 70 75 80

Pro Ser Arg Arg Leu Leu Asn Phe Pro Pro Phe Leu Met Ile Leu Phe

85 90 95

Ile Ala Leu Cys Leu Leu Gly Ser His Leu Gly Ser Gly Pro Thr Tyr

100 105 110

Pro Ser Gln Ala Gln Gly Leu Gln Pro Gly Arg His Ser Val Tyr Cys

115 120 125

Ala Ser Cys Ser Leu Gly Leu Glu Ser Phe Trp

130 135

<210> 3335

<211> 109

<212> PRT

<213> Homo sapiens

<400> 3335

Met Ile Pro His Ser Leu Ile Ala Leu Asn Thr Ile His Leu Leu Ile

1 5 10 15

Thr Thr Arg Leu Gly Ala Ser Ser Leu Arg Gly Ala Pro Arg Val Phe

20 25 30

Pro Asp Ser Phe Pro Phe Ala Pro Asn Pro His Ala Thr Ile Gln Gln

35 40 45

Val Leu Trp Leu Leu Ser Ala Thr Ser Asn Leu Ile His His Leu His

50 55 60

Phe His Asn Gln Phe Gln Ser Ser Ser Ser Pro Thr Gly Leu Leu Pro

65 70 75 80

Lys Ile Leu Leu Leu Pro Lys Ile Leu Gln Pro Pro Cys Ile Leu Ser

85 90 95

Cys Pro Pro Ala Val Gln Pro Pro Leu Lys His Pro Glu

100 105

<210> 3336

<211> 110

<212> PRT

<213> Homo sapiens

<400> 3336

Met Ile Phe Pro Tyr Leu Arg Val Gln Glu Lys Glu Cys Arg Thr Gln

1 5 10 15

Lys Ser Leu Gln Ile Ser Glu Val Cys Thr His Cys Asn Ile Thr Ile
 20 25 30
 Ser Ala Ser Phe Cys Leu Ile Leu Asp Ile Cys Ser Leu Leu Thr Glu
 35 40 45
 Ser Lys Ser Val Asn Tyr Gln Ile Gln Ser Asn His Gly Ser Ser Pro
 50 55 60
 Val Ser Val Val Thr Ser Lys Pro Ser Ser Asp Gln Lys Phe Ala Gln
 65 70 75 80
 Thr Arg Phe Gln Thr Glu Ile Cys Arg Ala Ser Glu Ser Gln Arg Glu
 85 90 95
 Leu Thr Thr Ile Ser Val Ala Ser Arg Lys Gln Trp Thr Ser
 100 105 110

<210> 3337

<211> 215

<212> PRT

<213> Homo sapiens

<400> 3337

Met Ala Ser Gly Arg Trp Ala Ser Pro Gly Pro Ala Trp Ala Ser Arg
 1 5 10 15
 Arg Pro Leu Gln Ala Gln Val Val Leu Lys Ser Ala Ser Pro Gly Pro
 20 25 30
 Ala Pro Ala Ser Gln Gln Ala Ser Ser Phe Gly Ser Ala Pro Ala Gln
 35 40 45
 Leu Pro Pro Ala Phe Val Asp Pro Glu Leu Ser Pro Ala Met Leu Leu
 50 55 60
 Ser Pro Thr Cys Leu Pro Val Ala Cys Thr Gly Pro Gly Leu Ala Gly

15

Ser Ser Leu Gln Pro Pro Leu Pro Val Phe Lys Gln Phe Ser Ala Ser
 20 25 30
 Ala Ser Arg Val Ala Gly Ile Thr Gly Ala Cys His His Ala Trp Leu
 35 40 45
 Ile Phe Val Phe Leu Val Glu Thr Gly Phe Arg His Val Ser Gln Ala
 50 55 60
 Gly Leu Glu Leu Leu Ala Ser Gly Asp Pro Val Cys Leu Gly Phe Pro
 65 70 75 80
 Lys Cys Trp Asp Tyr Arg Arg Glu Pro Leu Arg Pro Pro Arg Phe Ser
 85 90 95
 Leu Phe Asn Pro Phe Pro Leu Met Val Val Val Leu Glu Lys Gly Val
 100 105 110
 Lys Glu

<210> 3339

<211> 358

<212> PRT

<213> Homo sapiens

<400> 3339

Met Asn Asn Leu Ser Pro Ala Trp Lys Ser Phe Lys Val Ser Val Asn
 1 5 10 15
 Ser Leu Cys Ser Gly Asp Pro Asp Arg Arg Leu Lys Cys Ile Val Trp
 20 25 30
 Asp Trp Asp Ser Asn Gly Lys His Asp Phe Ile Gly Glu Phe Thr Ser
 35 40 45
 Thr Phe Lys Glu Met Arg Gly Ala Met Glu Gly Lys Gln Val Gln Trp

50	55	60
Glu Cys Ile Asn Pro Lys Tyr Lys Ala Lys Lys Lys Asn Tyr Lys Asn		
65	70	75
Ser Gly Thr Val Ile Leu Asn Leu Cys Lys Ile His Lys Met His Ser		
85	90	95
Phe Leu Asp Tyr Ile Met Gly Gly Cys Gln Ile Gln Phe Thr Val Ala		
100	105	110
Ile Asp Phe Thr Ala Ser Asn Gly Asp Pro Arg Asn Ser Cys Ser Leu		
115	120	125
His Tyr Ile His Pro Tyr Gln Pro Asn Glu Tyr Leu Lys Ala Leu Val		
130	135	140
Ala Val Gly Glu Ile Cys Gln Asp Tyr Asp Ser Asp Lys Met Phe Pro		
145	150	155
Ala Phe Gly Phe Gly Ala Arg Ile Pro Pro Glu Tyr Thr Val Ser His		
165	170	175
Asp Phe Ala Ile Asn Phe Asn Glu Asp Asn Pro Glu Cys Ala Gly Ile		
180	185	190
Gln Gly Val Val Glu Ala Tyr Gln Ser Cys Leu Pro Lys Leu Gln Leu		
195	200	205
Tyr Gly Pro Thr Asn Ile Ala Pro Ile Ile Gln Lys Val Ala Lys Ser		
210	215	220
Ala Ser Glu Glu Thr Asn Thr Lys Glu Ala Ser Gln Tyr Phe Ile Leu		
225	230	235
Leu Ile Leu Thr Asp Gly Val Ile Thr Asp Met Ala Asp Thr Arg Glu		
245	250	255
Ala Ile Val His Ala Ser His Leu Pro Met Ser Val Ile Ile Val Gly		
260	265	270
Val Gly Asn Ala Asp Phe Ser Asp Met Gln Met Leu Asp Gly Asp Asp		
275	280	285

Gly Ile Leu Arg Ser Pro Lys Gly Glu Pro Val Leu Arg Asp Ile Val
 290 295 300
 Gln Phe Val Pro Phe Arg Asn Phe Lys His Ala Ser Pro Ala Ala Leu
 305 310 315 320
 Ala Lys Ser Val Leu Ala Glu Val Pro Asn Gln Val Val Asp Tyr Tyr
 325 330 335
 Asn Gly Lys Gly Ile Lys Pro Lys Cys Ser Ser Glu Met Tyr Glu Ser
 340 345 350
 Ser Arg Thr Leu Ala Pro
 355

<210> 3340

<211> 108

<212> PRT

<213> Homo sapiens

<400> 3340

Met Tyr Phe Pro Ser Asp Val Thr Ser Leu Ile Gln Pro Cys Asp Gln
 1 5 10 15
 Gly Ile Phe Arg Ser Met Asn Arg Lys Tyr Lys Ser Thr Phe Leu Asn
 20 25 30
 Ser Met Leu Ala Ala Val Asn Arg Gly Met Gly Ala Gly Asn Phe Gln
 35 40 45
 Lys Glu Phe Ser Ile Lys Asn Ala Ile Tyr Val Val Ala Asn Thr Trp
 50 55 60
 Asn Thr Val Thr Lys Thr Gln Leu Cys Met Ser Gly Thr Thr Ser Gly
 65 70 75 80
 Leu Gln Leu Cys Leu Val Ile Met Met Asn Cys Val Cys Val Thr Leu

	85	90	95
Lys Asp Ser Val Cys Gln Val Lys Lys Asn Asp Val			
100	105		

<210> 3341

<211> 119

<212> PRT

<213> Homo sapiens

<400> 3341

Met Val Gly Leu Arg Trp Trp Asn His Ile Asp Glu Asp Gly Lys Ser			
1	5	10	15
His Trp Val Phe Glu Ser Arg Lys Glu Ser Ser Gln Glu Asn Lys Thr			
20	25	30	
Val Ser Glu Ala Glu Ser Arg Ile Phe Trp Leu Gly Leu Ile Ala Cys			
35	40	45	
Pro Val Leu Trp Val Ile Phe Ala Phe Ser Ala Leu Phe Ser Phe Arg			
50	55	60	
Val Lys Trp Leu Ala Val Val Ile Met Gly Val Val Leu Gln Gly Ala			
65	70	75	80
Asn Leu Tyr Gly Tyr Ile Arg Cys Lys Val Arg Ser Arg Lys His Leu			
85	90	95	
Thr Ser Met Ala Thr Ser Tyr Phe Gly Lys Gln Phe Leu Arg Gln Asn			
100	105	110	
Thr Gly Asp Asp Gln Thr Ser			
115			

<210> 3342

<211> 149

<212> PRT

<213> Homo sapiens

<400> 3342

Met Glu Thr Cys Phe Arg Leu Arg Tyr Pro Ser Cys His Val Ala Leu

1 5 10 15

Thr Glu Cys Val Cys Arg Leu Glu Asn Ala Leu Arg Asn Phe Ala Cys

20 25 30

Leu Thr Thr Gly Asp Val Ile Ala Ile Asn Tyr Asn Glu Lys Ile Tyr

35 40 45

Glu Leu Arg Val Met Glu Thr Lys Pro Asp Lys Ala Val Ser Ile Ile

50 55 60

Glu Cys Asp Met Asn Val Asp Phe Asp Ala Pro Leu Gly Tyr Lys Glu

65 70 75 80

Pro Glu Arg Gln Val Gln His Glu Glu Ser Thr Glu Gly Glu Ala Asp

85 90 95

His Ser Gly Tyr Ala Gly Glu Leu Gly Phe Arg Ala Phe Ser Gly Ser

100 105 110

Gly Asn Arg Leu Asp Gly Lys Lys Lys Gly Val Glu Pro Ser Pro Ser

115 120 125

Pro Ile Lys Pro Gly Asp Ile Lys Arg Gly Ile Pro Asn Tyr Glu Phe

130 135 140

Lys Leu Gly Ser Ser

145

<210> 3343

<211> 806

<212> PRT

<213> Homo sapiens

<400> 3343

Met His Gly Lys Ser Thr Ala Val Leu Glu Met Asp Tyr Ser Ile Val

1 5 10 15

Asp Phe Leu Thr Leu Cys Glu Thr Pro Tyr Pro Asn Asp Phe Gln Glu

20 25 30

Pro Tyr Ala Val Val Val Leu Leu Glu Lys Asp Leu Val Leu Ile Asp

35 40 45

Leu Ala Gln Asn Gly Tyr Pro Ile Phe Glu Asn Pro Tyr Pro Leu Ser

50 55 60

Ile His Glu Ser Pro Val Thr Cys Cys Glu Tyr Phe Ala Asp Cys Pro

65 70 75 80

Val Asp Leu Ile Pro Ala Leu Tyr Ser Val Gly Ala Arg Gln Lys Arg

85 90 95

Gln Gly Tyr Ser Lys Lys Glu Trp Pro Ile Asn Gly Gly Asn Trp Gly

100 105 110

Leu Gly Ala Gln Ser Tyr Pro Glu Ile Ile Ile Thr Gly His Ala Asp

115 120 125

Gly Ser Val Lys Phe Trp Asp Ala Ser Ala Ile Thr Leu Gln Val Leu

130 135 140

Tyr Lys Leu Lys Thr Ser Lys Val Phe Glu Lys Ser Arg Asn Lys Asp

145 150 155 160

Asp Arg Pro Asn Thr Asp Ile Val Asp Glu Asp Pro Tyr Ala Ile Gln

165 170 175

Ile Ile Ser Trp Cys Pro Glu Ser Arg Met Leu Cys Ile Ala Gly Val

180 185 190

Ser Ala His Val Ile Ile Tyr Arg Phe Ser Lys Gln Glu Val Ile Thr
195 200 205
Glu Val Ile Pro Met Leu Glu Val Arg Leu Leu Tyr Glu Ile Asn Asp
210 215 220
Val Glu Thr Pro Glu Gly Glu Gln Pro Pro Pro Leu Pro Thr Pro Val
225 230 235 240
Gly Gly Ser Asn Pro Gln Pro Ile Pro Pro Gln Ser His Pro Ser Thr
245 250 255
Ser Ser Ser Ser Ser Asp Gly Leu Arg Asp Asn Val Pro Cys Leu Lys
260 265 270
Val Lys Asn Ser Pro Leu Lys Gln Ser Pro Gly Tyr Gln Thr Glu Leu
275 280 285
Val Ile Gln Leu Val Trp Val Gly Gly Glu Pro Pro Gln Gln Ile Thr
290 295 300
Ser Leu Ala Val Asn Ser Ser Tyr Gly Leu Val Val Phe Gly Asn Cys
305 310 315 320
Asn Gly Ile Ala Met Val Asp Tyr Leu Gln Lys Ala Val Leu Leu Asn
325 330 335
Leu Gly Thr Ile Glu Leu Tyr Gly Ser Asn Asp Pro Tyr Arg Arg Glu
340 345 350
Pro Arg Ser Pro Arg Lys Ser Arg Gln Pro Ser Gly Ala Gly Leu Cys
355 360 365
Asp Ile Ser Glu Gly Thr Val Val Pro Glu Asp Arg Cys Lys Ser Pro
370 375 380
Thr Ser Gly Ser Ser Ser Pro His Asn Ser Asp Asp Glu Gln Lys Met
385 390 395 400
Asn Asn Phe Ile Glu Lys Ala Lys Met Ser Arg Lys Leu Ser Leu Pro
405 410 415
Thr Asp Leu Lys Pro Asp Leu Asp Val Lys Asp Asn Ser Phe Ser Arg

420 425 430
Ser Arg Ser Ser Ser Val Thr Ser Ile Asp Lys Glu Pro Arg Glu Ala
435 440 445
Ile Ser Ala Leu His Phe Cys Glu Thr Phe Thr Arg Lys Thr Asp Ser
450 455 460
Ser Pro Ser Pro Cys Leu Trp Val Gly Thr Thr Leu Gly Thr Val Leu
465 470 475 480
Val Ile Ala Leu Asn Leu Pro Pro Gly Gly Glu Gln Arg Leu Leu Gln
485 490 495
Pro Val Ile Val Ser Pro Ser Gly Thr Ile Leu Arg Leu Lys Gly Ala
500 505 510
Ile Leu Arg Met Ala Phe Leu Asp Thr Thr Gly Cys Leu Ile Pro Pro
515 520 525
Ala Tyr Glu Pro Trp Arg Glu His Asn Val Pro Glu Glu Lys Asp Glu
530 535 540
Lys Glu Lys Leu Lys Lys Arg Arg Pro Val Ser Val Ser Pro Ser Ser
545 550 555 560
Ser Gln Glu Ile Ser Glu Asn Gln Tyr Ala Val Ile Cys Ser Glu Lys
565 570 575
Gln Ala Lys Val Ile Ser Leu Pro Thr Gln Asn Cys Ala Tyr Lys Gln
580 585 590
Asn Ile Thr Glu Thr Ser Phe Val Leu Arg Gly Asp Ile Val Ala Leu
595 600 605
Ser Asn Ser Ile Cys Leu Ala Cys Phe Cys Ala Asn Gly His Ile Met
610 615 620
Thr Phe Ser Leu Pro Ser Leu Arg Pro Leu Leu Asp Val Tyr Tyr Leu
625 630 635 640
Pro Leu Thr Asn Met Arg Ile Ala Arg Thr Phe Cys Phe Thr Asn Asn
645 650 655

Gly Gln Ala Leu Tyr Leu Val Ser Pro Thr Glu Ile Gln Arg Leu Thr

660

665

670

Tyr Ser Gln Glu Thr Cys Glu Asn Leu Gln Glu Met Leu Gly Glu Leu

675

680

685

Phe Thr Pro Val Glu Thr Pro Glu Ala Pro Asn Arg Gly Phe Phe Lys

690

695

700

Gly Leu Phe Gly Gly Gly Ala Gln Ser Leu Asp Arg Glu Glu Leu Phe

705

710

715

720

Gly Glu Ser Ser Ser Gly Lys Ala Ser Arg Ser Leu Ala Gln His Ile

725

730

735

Pro Gly Pro Gly Gly Ile Glu Gly Val Lys Gly Ala Ala Ser Gly Val

740

745

750

Val Gly Glu Leu Ala Arg Ala Arg Leu Ala Leu Asp Glu Arg Gly Gln

755

760

765

Lys Leu Gly Asp Leu Glu Glu Arg Thr Ala Ala Met Leu Ser Ser Ala

770

775

780

Glu Ser Phe Ser Lys His Ala His Glu Ile Met Leu Lys Tyr Lys Asp

785

790

795

800

Lys Lys Trp Tyr Gln Phe

805

<210> 3344

<211> 101

<212> PRT

<213> Homo sapiens

<400> 3344

Met Val Ala Gly His Gly Cys Val Thr Gly Glu Leu Val Arg Thr Gly

1 5 10 15
 Gln Trp Thr Gly Ser Lys Ala Gly Pro Ala Arg Gly Thr Asp Arg Leu
 20 25 30
 Gln Gly Asp Leu Pro Arg Asn Val His Arg Val Trp Asp Leu Ala Leu
 35 40 45
 Ala Gly Leu Gly Pro Leu Cys Gly Cys Asn Ile Ile Lys Trp Arg Thr
 50 55 60
 Ala Val Met Arg Leu Gly Asp Ala Ala Val Gly Gly Val Cys Pro Asp
 65 70 75 80
 Pro Arg Ala Ala Arg Pro Ala Leu Val Thr Arg Ile Asn Gln Ala Arg
 85 90 95
 Pro Leu Ile Cys Cys
 100

<210> 3345

<211> 600

<212> PRT

<213> Homo sapiens

<400> 3345

Met Ser His Gln Glu Gly Ser Thr Gly Gly Leu Pro Asp Leu Val Thr
 1 5 10 15
 Glu Ser Leu Phe Ser Ser Pro Glu Glu Gln Ser Gly Val Ala Ala Val
 20 25 30
 Thr Ala Ala Ser Ser Asp Ile Glu Met Ala Ala Thr Glu Pro Ser Thr
 35 40 45
 Gly Asp Gly Gly Asp Thr Arg Asp Gly Gly Phe Leu Asn Asp Ala Ser
 50 55 60

Thr	Glu	Asn	Gln	Asn	Thr	Asp	Ser	Glu	Ser	Ser	Ser	Glu	Asp	Val	Glu
65					70				75						80
Leu	Glu	Ser	Met	Gly	Glu	Gly	Leu	Phe	Gly	Tyr	Pro	Leu	Val	Gly	Glu
				85					90					95	
Glu	Thr	Glu	Arg	Glu	Glu	Glu	Glu	Glu	Glu	Met	Glu	Glu	Glu	Gly	Glu
				100				105						110	
Glu	Glu	Glu	Gln	Pro	Arg	Met	Cys	Pro	Arg	Cys	Gly	Gly	Thr	Asn	His
			115				120						125		
Asp	Gln	Cys	Leu	Leu	Asp	Glu	Asp	Gln	Ala	Leu	Glu	Glu	Trp	Ile	Ser
			130				135						140		
Ser	Glu	Thr	Ser	Ala	Leu	Pro	Arg	Ser	Arg	Trp	Gln	Val	Leu	Thr	Ala
145					150					155				160	
Leu	Arg	Gln	Arg	Gln	Leu	Gly	Ser	Ser	Ala	Arg	Phe	Val	Tyr	Glu	Ala
				165					170					175	
Cys	Gly	Ala	Arg	Thr	Phe	Val	Gln	Arg	Phe	Arg	Leu	Gln	Tyr	Leu	Leu
			180					185					190		
Gly	Ser	His	Ala	Gly	Ser	Val	Ser	Thr	Ile	His	Phe	Asn	Gln	Arg	Gly
			195					200					205		
Thr	Arg	Leu	Ala	Ser	Ser	Gly	Asp	Asp	Leu	Arg	Val	Ile	Val	Trp	Asp
			210				215						220		
Trp	Val	Arg	Gln	Lys	Pro	Val	Leu	Asn	Phe	Glu	Ser	Gly	His	Asp	Ile
225					230					235				240	
Asn	Val	Ile	Gln	Ala	Lys	Phe	Phe	Pro	Asn	Cys	Gly	Asp	Ser	Thr	Leu
				245					250					255	
Ala	Met	Cys	Gly	His	Asp	Gly	Gln	Val	Arg	Val	Ala	Glu	Leu	Ile	Asn
			260					265					270		
Ala	Ser	Tyr	Cys	Glu	Asn	Thr	Lys	Arg	Val	Ala	Lys	His	Arg	Gly	Pro
			275					280					285		
Ala	His	Glu	Leu	Ala	Leu	Glu	Pro	Asp	Ser	Pro	Tyr	Lys	Phe	Leu	Thr

290 295 300
Ser Gly Glu Asp Ala Val Val Phe Thr Ile Asp Leu Arg Gln Asp Arg
305 310 315 320
Pro Ala Ser Lys Val Val Val Thr Arg Glu Asn Asp Lys Lys Val Gly
325 330 335
Leu Tyr Thr Ile Ser Met Asn Pro Ala Asn Ile Tyr Gln Phe Ala Val
340 345 350
Gly Gly His Asp Gln Phe Val Arg Ile Tyr Asp Gln Arg Arg Ile Asp
355 360 365
Lys Lys Glu Asn Asn Gly Val Leu Lys Lys Phe Thr Pro His His Leu
370 375 380
Val Tyr Cys Asp Phe Pro Thr Asn Ile Thr Cys Val Val Tyr Ser His
385 390 395 400
Asp Gly Thr Glu Leu Leu Ala Ser Tyr Asn Asp Glu Asp Ile Tyr Leu
405 410 415
Phe Asn Ser Ser Leu Ser Asp Gly Ala Gln Tyr Val Lys Arg Tyr Lys
420 425 430
Gly His Arg Asn Asn Asp Thr Ile Lys Cys Val Asn Phe Tyr Gly Pro
435 440 445
Arg Ser Glu Phe Val Val Ser Gly Ser Asp Cys Gly His Val Phe Phe
450 455 460
Trp Glu Lys Ser Ser Ser Gln Ile Ile Gln Phe Met Glu Gly Asp Arg
465 470 475 480
Gly Asp Ile Val Asn Cys Leu Glu Pro His Pro Tyr Leu Pro Val Leu
485 490 495
Ala Thr Ser Gly Leu Asp Gln His Val Arg Ile Trp Thr Pro Thr Ala
500 505 510
Lys Thr Ala Thr Glu Leu Thr Gly Leu Lys Asp Val Ile Lys Lys Asn
515 520 525

Lys Gln Glu Arg Asp Glu Asp Asn Leu Asn Tyr Thr Asp Ser Phe Asp
 530 535 540
 Asn Arg Met Leu Arg Phe Phe Val Arg His Leu Leu Gln Arg Ala His
 545 550 555 560
 Gln Pro Gly Trp Arg Asp His Gly Ala Glu Phe Pro Asp Glu Glu Glu
 565 570 575
 Leu Asp Glu Ser Ser Ser Thr Ser Asp Thr Ser Glu Glu Glu Gly Gln
 580 585 590
 Asp Arg Val Gln Cys Ile Pro Ser
 595 600

<210> 3346

<211> 680

<212> PRT

<213> Homo sapiens

<400> 3346

Met Ser Cys Thr Gly Thr Pro Ser Cys Ile Tyr Leu Leu Ser Ala Leu
 1 5 10 15
 Ser Leu Arg Asp Leu Val Leu Asp Trp Glu Pro Arg Gly Val Pro Pro
 20 25 30
 Pro Leu Pro Gly Ala Ala Ala Thr Met Phe Ser Cys Val Lys Pro Tyr
 35 40 45
 Glu Asp Gln Asn Tyr Ser Ala Leu Arg Arg Asp Cys Arg Arg Arg Lys
 50 55 60
 Val Leu Phe Glu Asp Pro Leu Phe Pro Ala Thr Asp Asp Ser Leu Tyr
 65 70 75 80
 Tyr Lys Gly Thr Pro Gly Pro Ala Val Arg Trp Lys Arg Pro Lys Gly

85	90	95
Ile Cys Glu Asp Pro Arg Leu Phe Val Asp Gly Ile Ser Ser His Asp		
100	105	110
Leu His Gln Gly Gln Val Gly Asn Cys Trp Phe Val Ala Ala Cys Ser		
115	120	125
Ser Leu Ala Ser Arg Glu Ser Leu Trp Gln Lys Val Ile Pro Asp Trp		
130	135	140
Lys Glu Gln Glu Trp Asp Pro Glu Lys Pro Asn Ala Tyr Ala Gly Ile		
145	150	155
160		
Phe His Phe His Phe Trp Arg Phe Gly Glu Trp Val Asp Val Val Ile		
165	170	175
Asp Asp Arg Leu Pro Thr Val Asn Asn Gln Leu Ile Tyr Cys His Ser		
180	185	190
Asn Ser Arg Asn Glu Phe Trp Cys Ala Leu Val Glu Lys Ala Tyr Ala		
195	200	205
Lys Leu Ala Gly Cys Tyr Gln Ala Leu Asp Gly Gly Asn Thr Ala Asp		
210	215	220
Ala Leu Val Asp Phe Ala Gly Gly Val Ser Glu Pro Ile Asp Leu Thr		
225	230	235
240		
Glu Gly Asp Phe Ala Asn Asp Glu Thr Lys Arg Asn Gln Leu Phe Glu		
245	250	255
Arg Met Leu Lys Val His Ser Arg Gly Gly Leu Ile Ser Ala Ser Ile		
260	265	270
Lys Ala Val Thr Ala Ala Asp Met Glu Ala Arg Leu Ala Cys Gly Leu		
275	280	285
Val Lys Gly His Ala Tyr Ala Val Thr Asp Val Arg Lys Val Arg Leu		
290	295	300
Gly His Gly Leu Leu Ala Phe Phe Lys Ser Glu Lys Met Asp Met Ile		
305	310	315
320		

Arg Leu Arg Asn Pro Trp Gly Glu Arg Glu Trp Asn Gly Pro Trp Ser
325 330 335
Asp Thr Ser Glu Glu Trp Gln Lys Val Ser Lys Ser Glu Arg Glu Lys
340 345 350
Met Gly Val Thr Val Gln Asp Asp Gly Glu Phe Trp Met Thr Phe Glu
355 360 365
Asp Val Cys Arg Tyr Phe Thr Asp Ile Ile Lys Cys Arg Val Ile Asn
370 375 380
Thr Ser His Leu Ser Ile His Lys Thr Trp Glu Glu Ala Arg Leu His
385 390 395 400
Gly Ala Trp Thr Leu His Glu Asp Pro Arg Gln Asn Arg Gly Gly Gly
405 410 415
Cys Ile Asn His Lys Asp Thr Phe Phe Gln Asn Pro Gln Tyr Ile Phe
420 425 430
Glu Val Lys Lys Pro Glu Asp Glu Val Leu Ile Cys Ile Gln Gln Arg
435 440 445
Pro Lys Arg Ser Thr Arg Arg Glu Gly Lys Gly Glu Asn Leu Ala Ile
450 455 460
Gly Phe Asp Ile Tyr Lys Val Glu Glu Asn Arg Gln Tyr Arg Met His
465 470 475 480
Ser Leu Gln His Lys Ala Ala Ser Ser Ile Tyr Ile Asn Ser Arg Ser
485 490 495
Val Phe Leu Arg Thr Asp Gln Pro Glu Gly Arg Tyr Val Ile Ile Pro
500 505 510
Thr Thr Phe Glu Pro Gly His Thr Gly Glu Phe Leu Leu Arg Val Phe
515 520 525
Thr Asp Val Pro Ser Asn Cys Arg Glu Leu Arg Leu Asp Glu Pro Pro
530 535 540
His Thr Cys Trp Ser Ser Leu Cys Gly Tyr Pro Gln Leu Val Thr Gln

545 550 555 560
 Val His Val Leu Gly Ala Ala Gly Leu Lys Asp Ser Pro Thr Gly Ala
 565 570 575
 Asn Ser Tyr Val Ile Ile Lys Cys Glu Gly Asp Lys Val Arg Ser Ala
 580 585 590
 Val Gln Lys Gly Thr Ser Thr Pro Glu Tyr Asn Val Lys Gly Ile Phe
 595 600 605
 Tyr Arg Lys Lys Leu Ser Gln Pro Ile Thr Val Gln Val Trp Asn His
 610 615 620
 Arg Val Leu Lys Asp Glu Phe Leu Gly Gln Val His Leu Lys Ala Asp
 625 630 635 640
 Pro Asp Asn Leu Gln Ala Leu His Thr Leu His Leu Arg Asp Arg Asn
 645 650 655
 Ser Arg Gln Pro Ser Asn Leu Pro Gly Thr Val Ala Val His Ile Leu
 660 665 670
 Ser Ser Thr Ser Leu Met Ala Val
 675 680

<210> 3347

<211> 154

<212> PRT

<213> Homo sapiens

<400> 3347

Met Ser Val Gly Thr Ser Leu Glu Gln Ala Gln Met Ser Thr Leu Thr
 1 5 10 15
 Cys Pro Leu Phe Ile Pro Thr Val Gly Arg Lys Thr Ala Leu His Ser
 20 25 30

Gly Glu Asp Phe Gln Thr Leu Leu Phe Glu Arg Val Phe Val Asn Leu
 35 40 45
 Asp Gly Cys Phe Asp Met Ala Thr Gly Gln Phe Ala Ala Pro Leu Arg
 50 55 60
 Gly Ile Tyr Phe Phe Ser Leu Asn Val His Ser Trp Asn Tyr Lys Glu
 65 70 75 80
 Thr Tyr Val His Ile Met His Asn Gln Lys Glu Ala Val Ile Leu Tyr
 85 90 95
 Ala Gln Pro Ser Glu Arg Ser Ile Met Gln Ser Gln Ser Val Met Leu
 100 105 110
 Asp Leu Ala Tyr Gly Asp Arg Val Trp Val Arg Leu Phe Lys Arg Gln
 115 120 125
 Arg Glu Asn Ala Ile Tyr Ser Asn Asp Phe Asp Thr Tyr Ile Thr Phe
 130 135 140
 Ser Gly His Leu Ile Lys Ala Glu Asp Asp
 145 150

<210> 3348

<211> 1149

<212> PRT

<213> Homo sapiens

<400> 3348

Met Ser Gly Tyr Gln Arg Leu Met Lys Glu Val Thr Glu Asp Leu Lys
 1 5 10 15
 Ile Tyr Val Pro Asp Thr Ile Cys Asn Arg Val Ser Lys Met Lys Glu
 20 25 30
 Asn Val Lys Gln Asn Arg Lys Gln Arg Glu Ser Ile Asp Lys Ile Lys

35 40 45
Val Lys Val Ala Asn Thr Arg Lys Gln Ala Leu Gln Glu Gln Phe Asp
50 55 60
Glu Trp Ile Leu Asp Pro Lys Gly Met Ile Pro Lys Ser Val Ile Gln
65 70 75 80
Asn Val Leu Gln Glu Phe Phe Gln Asn Pro Asp Phe Lys Leu Gly Ser
85 90 95
His Cys Lys Gln Leu Asp Ile Thr Asp Ser Thr Glu Pro Arg Leu Asn
100 105 110
Lys Met Glu Phe Thr Glu Tyr Ile Ser Ser His Ile Lys Asp Leu Lys
115 120 125
Ser Glu Met Phe Glu Glu Leu Leu Lys His Leu Cys His Ser Ala Asp
130 135 140
Glu Phe Arg Glu Val Ile Lys Ala Asp Met Arg Arg Gln Met Phe Ala
145 150 155 160
Glu Leu Phe Leu His Cys Asp His Gly Lys Val Gly Phe Leu Asp Arg
165 170 175
Gln Arg Thr Leu Ala Leu Leu Glu Leu Phe Tyr Asp His Ser Ser Gln
180 185 190
Met Leu Arg Ser Leu Leu Gln Asn Pro Arg Gln Trp Pro Phe Ile Glu
195 200 205
Phe Glu Glu Ile Asn Leu Thr Glu Leu Trp Gly Asp Met Asp Asn Gln
210 215 220
Lys His Ile Tyr Glu Gly Phe Asp Lys Val Leu Leu Glu Met Asn Thr
225 230 235 240
Leu Leu Ser Ala Asn His Ala Ser Lys Thr Gln Ser Lys Leu Leu Glu
245 250 255
Ser Pro Asp Gln Pro Lys Leu Asn Glu Gln Arg Thr Ser Thr Pro Ser
260 265 270

Pro Asn Pro Pro Glu Gln Gln Arg Gly Val Thr Ala Glu Gln Gly Pro
275 280 285

Gln Arg Ile Ser Ile Glu Glu Gln Gln Gln Gly Lys Lys Pro Thr Ala
290 295 300

Glu Gln Glu Leu Tyr Ile Glu Ser Val Ile Glu Pro Gly Thr His Thr
305 310 315 320

Glu Ser Thr Leu Glu Gln Gly Ser Ser Arg Arg Leu Leu Thr Glu Gln
325 330 335

Glu Thr His Arg Glu Ser Thr Thr Glu Gln Gly Gln His Lys Gly Ser
340 345 350

Ile Glu Gly Gln Gly Pro Arg Arg Val Ser Val Ser Glu Gln Gly Ser
355 360 365

Ser Arg Glu Ser Val Ala Glu Gln Gly Ser Arg Arg Glu Ser Ile Ala
370 375 380

Glu Gln Asp Arg His Lys Gly Ser Val Ala Glu Gln Gly Ser Arg Arg
385 390 395 400

Met Ser Ala Ala Glu Gln Gly Ser Leu Arg Glu Ser Val Ile Glu Glu
405 410 415

Pro Tyr Gln Lys Ser Glu Gln Gly Pro Tyr Gly Glu Ile Ile Ser Glu
420 425 430

Glu Gln Glu Asp Ile Gly Ser Thr Ser Gln Ser Arg Lys Asp Ser Ile
435 440 445

Leu Lys Ser Thr Lys Tyr Gly Glu Pro Ile Thr Ser Glu Tyr Ile Glu
450 455 460

Val Pro Leu Gln Glu Lys Arg Ser Trp Glu Gln Thr Tyr Glu Glu Glu
465 470 475 480

Ile Phe Leu Ser Ser Glu Leu Gln Glu Glu Val Pro Thr Leu Ser Arg
485 490 495

Lys Asp His Phe Pro Glu Thr Thr Lys Lys Glu Val Gln Lys Asp Lys

500 505 510
Pro Cys Glu Pro Lys Ser Gln Lys Ile Glu Gly Lys Ser Trp Ser Gly
515 520 525
Glu Phe Phe Thr Cys Asn Trp Lys Met Lys Tyr Val Thr Phe Glu Asp
530 535 540
Glu Glu Gln Ala Asn Leu Ile Tyr Gly Asn Ser Arg Phe Thr Ala Lys
545 550 555 560
Leu His Ile Gln Phe Pro Lys Pro His Pro Gly His Glu Val Arg Leu
565 570 575
Ser Ser Lys Gln Phe Gln Asn Tyr Ile Glu Leu Val Val Ser Glu Leu
580 585 590
Arg Gly Asn Glu Asp Gln Val Leu Glu Ser Val Val Glu Phe Leu Ile
595 600 605
Asn Ala Leu Glu Arg Ser His Ile Glu Ser Leu Arg Asn Ser Ala Arg
610 615 620
Arg Lys Trp Leu His Gln Ile Gln Cys Ala Ala Glu Thr Ser Gly Val
625 630 635 640
Ser Leu Glu Pro Val Tyr Ser Glu Thr Phe Lys Ala Leu Met Gln Asp
645 650 655
Ala Glu Ala His Gly Asn Lys Lys Ile Ser Ala His Ile Ser Leu Leu
660 665 670
Glu Glu Asn Leu Leu Leu Pro Glu Lys Gly Asn Val Leu Leu Arg Asn
675 680 685
Val Ala Cys Thr Leu Asp Asp Ala Gln Phe Val Leu Asn Arg Val Leu
690 695 700
Tyr Arg Asp Met Lys Gly Ile Ser Phe Thr Val Val Asp Glu Gly Lys
705 710 715 720
Pro Ile His Val Pro Gln Val Gln Tyr His Gly Asn Ile Phe Phe Trp
725 730 735

Asn Gln Ser Arg Asn Lys His Asp Tyr Asn Gly Ser Phe Leu Ala Leu
740 745 750
Pro Leu Gln Asp Ala Tyr Met Arg Ile Phe Gly Val Leu Ala Val Asp
755 760 765
Thr Leu Arg Asp Pro His Glu Ile Asn Ile Phe Leu Pro His Glu Ile
770 775 780
Arg Phe Tyr Gln Gly Val Ala Asn Val Phe Ser Thr Ala Tyr His Tyr
785 790 795 800
Val His Ser Arg Glu His Ile Leu His Ile Val Ile Thr Gly Ile Gly
805 810 815
Trp Leu Tyr Asp Val Thr Ser Ser Ile Thr Ser Ile Thr Thr Tyr Phe
820 825 830
Val Glu Pro Ser Pro Ala Gln Asp Ser Asp Tyr Val Leu Arg Asn Met
835 840 845
Met Val Thr Gly Gln Leu Gly Leu Thr Glu Ile His Lys Asn Pro Pro
850 855 860
Thr Ile His Arg Lys Ser Cys Ile Phe Arg Asp Phe Leu Phe Lys Cys
865 870 875 880
Thr Asp Ser Ser Glu Val Val Leu Ala Ser Ala Cys Gly Glu Thr His
885 890 895
Ile Val Val Pro Leu Arg Glu Arg Thr Gly Glu Ala Leu Gly Val Leu
900 905 910
Asp Phe Asn Ile Gly Gln Asn Arg Met Leu Leu Cys Gln Glu Tyr Lys
915 920 925
Asp Leu Gln Lys Met Met Lys Val Val Gln Val Ala Cys Tyr Glu Ile
930 935 940
Leu Gly Glu Phe Ser Gly Glu Ile Lys Lys Lys Tyr Ile Leu Glu Ile
945 950 955 960
Glu Asn Val Arg Glu Val Gln Arg Ala Gly Ile Leu Phe Phe Arg Ile

965 970 975
Met Leu Leu Glu Leu Gln Glu Ser Ile Gln Leu Leu Asn Ser Met Glu
980 985 990
Phe Val Ser Leu Leu Leu Tyr Asp His Thr Leu Val Thr Glu Pro Asn
995 1000 1005
Ser Pro Gln Asp Ser Lys Ser Met Glu Leu Glu Ala Asn Val Lys Leu
1010 1015 1020
Val Arg Asp Ile Leu Lys Ala Val Ile Leu Phe Phe His Pro Glu Leu
1025 1030 1035 1040
Glu Phe Ser Ser Asp Phe Gly Ser Trp Asp Lys Cys Lys Phe Tyr Val
1045 1050 1055
Asn Lys Tyr Leu Val Asn Asn Ile Cys Ala Phe Asp Pro Thr Ala Lys
1060 1065 1070
His Val Glu Val Asn Val Gln Leu Ile Asp Glu Tyr Ile Arg Asp His
1075 1080 1085
Ser Arg Thr Glu Val Trp Lys Phe Gly Asn Val Val Ile Glu His Leu
1090 1095 1100
Tyr His Trp Ile His Ile Cys Ser Ala Leu Met Lys Ile Thr Lys Gln
1105 1110 1115 1120
Leu Asn Ser Gly Ile Thr Pro Pro Leu Pro Ser Lys Thr Asp Asn Tyr
1125 1130 1135
Met Tyr Ala Lys Met Pro Gly Glu Gly Leu Gln Glu Lys
1140 1145

<210> 3349

<211> 1198

<212> PRT

<213> Homo sapiens

<400> 3349

Met Pro Val Ile Pro Ala Leu Trp Glu Val Glu Met Gly Arg Ser Gln
 1 5 10 15
 Gly Gln Glu Ile Glu Thr Ile Leu Ala Asn Arg Ser His Ser Asp Ser
 20 25 30
 Thr Pro Leu Pro Asn Phe Leu Ser Gly Ser His Arg Pro Glu Cys Cys
 35 40 45
 Thr Cys Arg Leu Leu Thr Ala Ser Gly Ala Gln Asp Ser Leu Pro Phe
 50 55 60
 Gly Arg Arg Leu Tyr Ser Gly Pro Trp Arg Ser Cys Glu Glu Val Cys
 65 70 75 80
 His Val Ser Val Leu Ser Val Leu Ser Thr Ser Cys Gly Leu Ser Leu
 85 90 95
 Ser Leu Pro Ile Phe Pro Gly Trp Met Glu Trp Leu Ser Pro Asp Ile
 100 105 110
 Ala Leu Pro Arg Arg Asp Glu Trp Thr Gln Thr Ser Pro Ala Arg Lys
 115 120 125
 Arg Ile Thr His Ala Lys Val Gln Gly Ala Gly Gln Leu Arg Leu Ser
 130 135 140
 Ile Asp Ala Gln Asp Arg Val Leu Leu Leu His Ile Ile Glu Gly Lys
 145 150 155 160
 Gly Leu Ile Ser Lys Gln Pro Gly Thr Cys Asp Pro Tyr Val Lys Ile
 165 170 175
 Ser Leu Ile Pro Glu Asp Ser Arg Leu Arg His Gln Lys Thr Gln Thr
 180 185 190
 Val Pro Asp Cys Arg Asp Pro Ala Phe His Glu His Phe Phe Phe Pro
 195 200 205
 Val Gln Glu Glu Asp Asp Gln Lys Arg Leu Leu Val Thr Val Trp Asn

210	215	220
Arg Ala Ser Gln Ser Arg Gln Ser Gly Leu Ile Gly Cys Met Ser Phe		
225	230	235
Gly Val Lys Ser Leu Leu Thr Pro Asp Lys Glu Ile Ser Gly Trp Tyr		
245	250	255
Tyr Leu Leu Gly Glu His Leu Gly Arg Thr Lys His Leu Lys Val Ala		
260	265	270
Arg Arg Arg Leu Arg Pro Leu Arg Asp Pro Leu Leu Arg Met Pro Gly		
275	280	285
Gly Gly Asp Thr Glu Asn Gly Lys Lys Leu Lys Ile Thr Ile Pro Arg		
290	295	300
Gly Lys Asp Gly Phe Gly Phe Thr Ile Cys Cys Asp Ser Pro Val Arg		
305	310	315
Val Gln Ala Val Asp Ser Gly Gly Pro Ala Glu Arg Ala Gly Leu Gln		
325	330	335
Gln Leu Asp Thr Val Leu Gln Leu Asn Glu Arg Pro Val Glu His Trp		
340	345	350
Lys Cys Val Glu Leu Ala His Glu Ile Arg Ser Cys Pro Ser Glu Ile		
355	360	365
Ile Leu Leu Val Trp Arg Met Val Pro Gln Val Lys Pro Gly Pro Asp		
370	375	380
Gly Gly Val Leu Arg Arg Ala Ser Cys Lys Ser Thr His Asp Leu Gln		
385	390	395
Ser Pro Pro Asn Lys Arg Glu Lys Asn Cys Thr His Gly Val Gln Ala		
405	410	415
Arg Pro Glu Gln Arg His Ser Cys His Leu Val Cys Asp Ser Ser Asp		
420	425	430
Gly Leu Leu Leu Gly Gly Trp Glu Arg Tyr Thr Glu Val Ala Lys Arg		
435	440	445

Gly Gly Gln His Thr Leu Pro Ala Leu Ser Arg Ala Thr Ala Pro Thr
 450 455 460
 Asp Pro Asn Tyr Ile Ile Leu Ala Pro Leu Asn Pro Gly Ser Gln Leu
 465 470 475 480
 Leu Arg Pro Val Tyr Gln Glu Asp Thr Ile Pro Glu Glu Ser Gly Ser
 485 490 495
 Pro Ser Lys Gly Lys Ser Tyr Thr Gly Leu Gly Lys Lys Ser Arg Leu
 500 505 510
 Met Lys Thr Val Gln Thr Met Lys Gly His Gly Asn Tyr Gln Asn Cys
 515 520 525
 Pro Val Val Arg Pro His Ala Thr His Ser Ser Tyr Gly Thr Tyr Val
 530 535 540
 Thr Leu Ala Pro Lys Val Leu Val Phe Pro Val Phe Val Gln Pro Leu
 545 550 555 560
 Asp Leu Cys Asn Pro Ala Arg Thr Leu Leu Leu Ser Glu Glu Leu Leu
 565 570 575
 Leu Tyr Glu Gly Arg Asn Lys Ala Ala Glu Val Thr Leu Phe Ala Tyr
 580 585 590
 Ser Asp Leu Leu Leu Phe Thr Lys Glu Asp Glu Pro Gly Arg Cys Asp
 595 600 605
 Val Leu Arg Asn Pro Leu Tyr Leu Gln Ser Val Lys Leu Gln Glu Gly
 610 615 620
 Ser Ser Glu Asp Leu Lys Phe Cys Val Leu Tyr Leu Ala Glu Lys Ala
 625 630 635 640
 Glu Cys Leu Phe Thr Leu Glu Ala His Ser Gln Glu Gln Lys Lys Arg
 645 650 655
 Val Cys Trp Cys Leu Ser Glu Asn Ile Ala Lys Gln Gln Gln Leu Ala
 660 665 670
 Ala Ser Pro Pro Asp Ser Lys Met Phe Glu Thr Glu Ala Asp Glu Lys

675	680	685
Arg Glu Met Ala Leu Glu Glu Gly Lys Gly Pro Gly Ala Glu Asp Ser		
690	695	700
Pro Pro Ser Lys Glu Pro Ser Pro Gly Gln Glu Leu Pro Pro Gly Gln		
705	710	715
Asp Leu Pro Pro Asn Lys Asp Ser Pro Ser Gly Gln Glu Pro Ala Pro		
725	730	735
Ser Gln Glu Pro Leu Ser Ser Lys Asp Ser Ala Thr Ser Glu Gly Ser		
740	745	750
Pro Pro Gly Pro Asp Ala Pro Pro Ser Lys Asp Val Pro Pro Cys Gln		
755	760	765
Glu Pro Pro Pro Ala Gln Asp Leu Ser Pro Cys Gln Asp Leu Pro Ala		
770	775	780
Gly Gln Glu Pro Leu Pro His Gln Asp Pro Leu Leu Thr Lys Asp Leu		
785	790	795
Pro Ala Ile Gln Glu Ser Pro Thr Arg Asp Leu Pro Pro Cys Gln Asp		
805	810	815
Leu Pro Pro Ser Gln Val Ser Leu Pro Ala Lys Ala Leu Thr Glu Asp		
820	825	830
Thr Met Ser Ser Gly Asp Leu Leu Ala Ala Thr Gly Asp Pro Pro Ala		
835	840	845
Ala Pro Arg Pro Ala Phe Val Ile Pro Glu Val Arg Leu Asp Ser Thr		
850	855	860
Tyr Ser Gln Lys Ala Gly Ala Glu Gln Gly Cys Ser Gly Asp Glu Glu		
865	870	875
Asp Ala Glu Glu Ala Glu Glu Val Glu Glu Gly Glu Glu Gly Glu Glu		
885	890	895
Asp Glu Asp Glu Asp Thr Ser Asp Asp Asn Tyr Gly Glu Arg Ser Glu		
900	905	910

Ala Lys Arg Ser Ser Met Ile Glu Thr Gly Gln Gly Ala Glu Gly Gly
915 920 925

Leu Ser Leu Arg Val Gln Asn Ser Leu Arg Arg Arg Thr His Ser Glu
930 935 940

Gly Ser Leu Leu Gln Glu Pro Arg Gly Pro Cys Phe Ala Ser Asp Thr
945 950 955 960

Thr Leu His Cys Ser Asp Gly Glu Gly Ala Ala Ser Thr Trp Gly Met
965 970 975

Pro Ser Pro Ser Thr Leu Lys Lys Glu Leu Gly Arg Asn Gly Gly Ser
980 985 990

Met His His Leu Ser Leu Phe Phe Thr Gly His Arg Lys Met Ser Gly
995 1000 1005

Ala Asp Thr Val Gly Asp Asp Asp Glu Ala Ser Arg Lys Arg Lys Ser
1010 1015 1020

Lys Asn Leu Ala Lys Asp Met Lys Asn Lys Leu Gly Ile Phe Arg Arg
1025 1030 1035 1040

Arg Asn Glu Ser Pro Gly Ala Pro Pro Ala Gly Lys Ala Asp Lys Met
1045 1050 1055

Met Lys Ser Phe Lys Pro Thr Ser Glu Glu Ala Leu Lys Trp Gly Glu
1060 1065 1070

Ser Leu Glu Lys Leu Leu Val His Lys Tyr Gly Leu Ala Val Phe Gln
1075 1080 1085

Ala Phe Leu Arg Thr Glu Phe Ser Glu Glu Asn Leu Glu Phe Trp Leu
1090 1095 1100

Ala Cys Glu Asp Phe Lys Lys Val Lys Ser Gln Ser Lys Met Ala Ser
1105 1110 1115 1120

Lys Ala Lys Lys Ile Phe Ala Glu Tyr Ile Ala Ile Gln Ala Cys Lys
1125 1130 1135

Glu Val Asn Leu Asp Ser Tyr Thr Arg Glu His Thr Lys Asp Asn Leu

1140 1145 1150
Gln Ser Val Thr Arg Gly Cys Phe Asp Leu Ala Gln Lys Arg Ile Phe
1155 1160 1165
Gly Leu Met Glu Lys Asp Ser Tyr Pro Arg Phe Leu Arg Ser Asp Leu
1170 1175 1180
Tyr Leu Asp Leu Ile Asn Gln Lys Lys Met Ser Pro Pro Leu
1185 1190 1195

<210> 3350

<211> 222

<212> PRT

<213> Homo sapiens

<400> 3350

Met Asp Pro Pro Trp Ser Tyr Pro Asp Pro Gly Ser Gly Pro Thr Ser
1 5 10 15
Ala Leu Ala Ile Pro Leu Pro Trp Pro Gly Pro Arg Tyr Trp Ser Leu
20 25 30
Ser Cys Pro Ser Arg Gly Pro Gly Pro Ala Leu Pro Val Pro Cys Ser
35 40 45
Ile Leu Gly Trp Pro Cys His Gly Leu Val Leu Pro Leu Ala Cys Pro
50 55 60
Ser Leu Pro Cys Leu Cys Pro Arg Ser Ala Pro Ala Phe Ala Pro Val
65 70 75 80
Leu Val Pro Ala Leu Thr Gln Pro Trp Thr Phe Pro Asp Leu Ala Ser
85 90 95
Ala Leu Ala Leu Pro Trp Pro Trp Leu Gly Ile Cys Pro Thr Leu Ser
100 105 110

Met Ala Trp Leu Trp Ser Cys Pro Ala Leu Leu Leu Phe Cys Pro Gly
 115 120 125
 Thr Ala Leu Ala Leu Pro Tyr His Trp Leu Trp Ser Cys Pro Tyr Ala
 130 135 140
 Gly Leu Thr Val Pro Leu Pro Trp Leu Trp Pro Gly Pro Trp Pro Tyr
 145 150 155 160
 Ser Asp Pro Ala Met Thr Leu Ser Trp Pro Trp Pro Gly Thr Trp Pro
 165 170 175
 Cys Gln Gly Leu Ala Leu Ala Leu Ser Trp Pro Arg Pro Phe Pro Gly
 180 185 190
 Phe Gly Cys Val Leu Ser Leu Ile Cys Pro Gly Pro Ser Leu Ala Leu
 195 200 205
 Pro Tyr Pro Phe Ser Gly Val Gly Pro Gly Ser Gly Pro Gly
 210 215 220

<210> 3351

<211> 467

<212> PRT

<213> Homo sapiens

<400> 3351

Met Leu Val His Leu Phe Arg Val Gly Ile Arg Gly Gly Pro Phe Pro
 1 5 10 15
 Gly Arg Leu Leu Pro Pro Leu Arg Phe Gln Thr Phe Ser Ala Val Arg
 20 25 30
 Arg Phe Leu Arg Leu Gln Pro Arg Val Ser Gln Lys Glu Gly Thr Leu
 35 40 45
 Gly Val Ser Asp His Ala Gln Ser Ala Leu Pro Thr Gly Gly Pro Leu

50	55	60
Ser Trp Pro Trp Arg Tyr Ser Asp Gly Tyr Arg Ser Ser Ser Leu Leu		
65	70	75
Arg Ala Val Ala His Leu Arg Ser Gln Leu Trp Ala His Leu Pro Arg		80
	85	90
Ala Pro Leu Ala Pro Arg Trp Ser Pro Ser Ala Trp Cys Trp Val Gly		95
100	105	110
Gly Ala Leu Leu Gly Pro Met Val Leu Ser Lys His Pro His Leu Cys		
115	120	125
Leu Val Ala Leu Cys Glu Ala Glu Glu Ala Pro Pro Ala Ser Ser Thr		
130	135	140
Pro His Val Val Gly Ser Arg Phe Asn Trp Lys Leu Phe Trp Gln Phe		
145	150	155
Leu His Pro His Leu Leu Val Leu Gly Val Ala Val Val Leu Ala Leu		160
	165	170
Gly Ala Ala Leu Val Asn Val Gln Ile Pro Leu Leu Leu Gly Gln Leu		175
180	185	190
Val Glu Val Val Ala Lys Tyr Thr Arg Asp His Val Gly Ser Phe Met		
195	200	205
Thr Glu Ser Gln Asn Leu Ser Thr His Leu Leu Ile Leu Tyr Gly Val		
210	215	220
Gln Gly Leu Leu Thr Phe Gly Tyr Leu Val Leu Leu Ser His Val Gly		
225	230	235
Glu Arg Met Ala Val Asp Met Arg Arg Ala Leu Phe Ser Ser Leu Leu		240
	245	250
Arg Gln Asp Ile Thr Phe Phe Asp Ala Asn Lys Thr Gly Gln Leu Val		255
260	265	270
Ser Arg Leu Thr Thr Asp Val Gln Glu Phe Lys Ser Ser Phe Lys Leu		
275	280	285

Val Ile Ser Gln Gly Leu Arg Ser Cys Thr Gln Val Ala Gly Cys Leu
290 295 300

Val Ser Leu Ser Met Leu Ser Thr Arg Leu Thr Leu Leu Leu Met Val
305 310 315 320

Ala Thr Pro Ala Leu Met Gly Val Gly Thr Leu Met Gly Ser Gly Leu
325 330 335

Arg Lys Leu Ser Arg Gln Cys Gln Glu Gln Ile Ala Arg Ala Met Gly
340 345 350

Val Ala Asp Glu Ala Leu Gly Asn Val Arg Thr Val Arg Ala Phe Ala
355 360 365

Met Glu Gln Arg Glu Glu Glu Arg Tyr Gly Ala Glu Leu Glu Ala Cys
370 375 380

Arg Cys Arg Ala Glu Glu Leu Gly Arg Gly Ile Ala Leu Phe Gln Gly
385 390 395 400

Leu Ser Asn Ile Ala Phe Asn Cys Met Val Leu Gly Thr Leu Phe Ile
405 410 415

Gly Gly Ser Leu Val Ala Gly Gln Gln Leu Thr Gly Gly Asp Leu Met
420 425 430

Ser Phe Leu Val Ala Ser Gln Thr Val Gln Arg Gln Val His Gly Gln
435 440 445

Pro Leu Cys Pro Val Trp Ala Gly Gly Pro Gly Ala Glu Cys Arg Cys
450 455 460

Pro Gly Leu
465

<210> 3352

<211> 291

<212> PRT

<213> Homo sapiens

<400> 3352

Met Gln Ala Lys Asn Lys Asp Ala Leu Gln Pro Ile Lys Glu Asp Arg
1 5 10 15
Thr Gly Lys Ala Gln Asp Asp Ala Phe Trp Leu Gln Ser Leu Ile Thr
20 25 30
Asp Ala Phe His Asp Lys Gly Phe Gln Lys Ile Lys Glu Tyr Phe Gln
35 40 45
Gln Lys Glu Ser His Phe Pro Gln Lys Tyr Asn Arg Leu Leu Leu Tyr
50 55 60
Arg Leu Asp Arg Ser Ile Asn Lys Glu Leu Asp Lys Asn Glu Phe Gln
65 70 75 80
Ser Val Ser Leu Leu Leu Lys Cys Ile Gln Arg Phe Leu Val Asp Gly
85 90 95
Leu Lys Glu Asp Glu Pro Leu Leu Ile Arg Gln Gly Leu Ile Pro Lys
100 105 110
Leu Val Ser Trp Phe Glu Arg Thr Thr Gly Ile Leu Thr Ser Glu Gly
115 120 125
Leu Ala Ser Asp Thr Ser Leu Ile Cys Val Ile Glu Asp Phe Phe Asp
130 135 140
Thr Ala Leu Ile Ile Ser Arg Ser Ser Ser Glu Gly Lys Ile Gln Met
145 150 155 160
Leu Asp Ser Phe Leu Leu Ser Leu Gly Phe Leu Val Thr Glu Lys Thr
165 170 175
Val Asn His Leu Leu Gln Gln Glu Gly Leu Lys Thr Phe Asn Cys Ile
180 185 190
Leu His Ala Val Pro Arg Glu Glu Arg Lys Lys Phe Pro Leu Ser Glu
195 200 205

Gly Met Cys His Leu Met Lys Asp Leu Ala Arg Thr Leu Leu Thr Val
 210 215 220
 Gly Asp Tyr Asp Gln Gln Val Ala Ile Ser Glu Ala Leu Cys Arg Leu
 225 230 235 240
 Thr Ile Lys Lys Ser Arg Asp Glu Leu Val His Lys Trp Phe Asp Asp
 245 250 255
 Glu Val Ile Ala Glu Ala Phe Lys Glu Ile Lys Asp Arg Glu Phe Glu
 260 265 270
 Thr Asp Ser Arg Arg Phe Leu Asn His Leu Asn Asn Arg Leu Gly Asp
 275 280 285
 Gln Arg Arg
 290

<210> 3353

<211> 110

<212> PRT

<213> Homo sapiens

<400> 3353

Met Ala Ser Gly Tyr Ala Ala His Glu Gly His Gly Thr Tyr Ala Ser
 1 5 10 15
 Glu Thr Ser Gly Asn Gly Gly Arg Trp Glu Pro Leu Pro Thr Phe Ala
 20 25 30
 Ala Arg Ala Val Ser Ser Gln Ser Leu His Gln Pro Gly His Arg Gly
 35 40 45
 Leu Gln Trp Asp Gly Pro Gly Phe Ser Ala Gly Trp His Arg Ser Gln
 50 55 60
 Pro Met Gly Ser Gly Gly Glu Cys Cys Val Thr Trp Leu Gln His Tyr

65	70	75	80
Pro Thr Leu Trp Asn Ser Ser Val Gly Gly Gly Gly Phe His Cys Arg			
	85	90	95
Lys Gln Thr His Gln Val Cys Pro Gly Val Asn Tyr Leu Arg			
100	105	110	

<210> 3354

<211> 945

<212> PRT

<213> Homo sapiens

<400> 3354

Met Gly Ala Arg Ser Gly Ala Arg Gly Ala Leu Leu Leu Ala Leu Leu			
1	5	10	15
Leu Cys Trp Asp Pro Arg Leu Ser Gln Ala Gly Thr Asp Ser Gly Ser			
20	25	30	
Glu Val Leu Pro Asp Ser Phe Pro Ser Ala Pro Ala Glu Pro Leu Pro			
35	40	45	
Tyr Phe Leu Gln Glu Pro Gln Asp Ala Tyr Ile Val Lys Asn Lys Pro			
50	55	60	
Val Glu Leu Arg Cys Arg Ala Phe Pro Ala Thr Gln Ile Tyr Phe Lys			
65	70	75	80
Cys Asn Gly Glu Trp Val Ser Gln Asn Asp His Val Thr Gln Glu Gly			
85	90	95	
Leu Asp Glu Ala Thr Gly Leu Arg Val Arg Glu Val Gln Ile Glu Val			
100	105	110	
Ser Arg Gln Gln Val Glu Glu Leu Phe Gly Leu Glu Asp Tyr Trp Cys			
115	120	125	

Gln Cys Val Ala Trp Ser Ser Ala Gly Thr Thr Lys Ser Arg Arg Ala
 130 135 140
 Tyr Val Arg Ile Ala Tyr Leu Arg Lys Asn Phe Asp Gln Glu Pro Leu
 145 150 155 160
 Gly Lys Glu Val Pro Leu Asp His Glu Val Leu Leu Gln Cys Arg Pro
 165 170 175
 Pro Glu Gly Val Pro Val Ala Glu Val Glu Trp Leu Lys Asn Glu Asp
 180 185 190
 Val Ile Asp Pro Thr Gln Asp Thr Asn Phe Leu Leu Thr Ile Asp His
 195 200 205
 Asn Leu Ile Ile Arg Gln Ala Arg Leu Ser Asp Thr Ala Asn Tyr Thr
 210 215 220
 Cys Val Ala Lys Asn Ile Val Ala Lys Arg Arg Ser Thr Thr Ala Thr
 225 230 235 240
 Val Ile Val Tyr Val Asn Gly Gly Trp Ser Ser Trp Ala Glu Trp Ser
 245 250 255
 Pro Cys Ser Asn Arg Cys Gly Arg Gly Trp Gln Lys Arg Thr Arg Thr
 260 265 270
 Cys Thr Asn Pro Ala Pro Leu Asn Gly Gly Ala Phe Cys Glu Gly Gln
 275 280 285
 Ala Phe Gln Lys Thr Ala Cys Thr Thr Ile Cys Pro Val Asp Gly Ala
 290 295 300
 Trp Thr Glu Trp Ser Lys Trp Ser Ala Cys Ser Thr Glu Cys Ala His
 305 310 315 320
 Trp Arg Ser Arg Glu Cys Met Ala Pro Pro Pro Gln Asn Gly Gly Arg
 325 330 335
 Asp Cys Ser Gly Thr Leu Leu Asp Ser Lys Asn Cys Thr Asp Gly Leu
 340 345 350
 Cys Met Gln Asn Lys Lys Thr Leu Ser Asp Pro Asn Ser His Leu Leu

355	360	365
Glu Ala Ser Gly Asp Ala Ala Leu Tyr Ala Gly Leu Val Val Ala Ile		
370	375	380
Phe Val Val Val Ala Ile Leu Met Ala Val Gly Val Val Val Tyr Arg		
385	390	395
Arg Asn Cys Arg Asp Phe Asp Thr Asp Ile Thr Asp Ser Ser Ala Ala		
405	410	415
Leu Thr Gly Gly Phe His Pro Val Asn Phe Lys Thr Ala Arg Pro Ser		
420	425	430
Asn Pro Gln Leu Leu His Pro Ser Val Pro Pro Asp Leu Thr Ala Ser		
435	440	445
Ala Gly Ile Tyr Arg Gly Pro Val Tyr Ala Leu Gln Asp Ser Thr Asp		
450	455	460
Lys Ile Pro Met Thr Asn Ser Pro Leu Leu Asp Pro Leu Pro Ser Leu		
465	470	475
Lys Val Lys Val Tyr Ser Ser Ser Thr Thr Gly Ser Gly Pro Gly Leu		
485	490	495
Ala Asp Gly Ala Asp Leu Leu Gly Val Leu Pro Pro Gly Thr Tyr Pro		
500	505	510
Ser Asp Phe Ala Arg Asp Thr His Phe Leu His Leu Arg Ser Ala Ser		
515	520	525
Leu Gly Ser Gln Gln Leu Leu Gly Leu Pro Arg Asp Pro Gly Ser Ser		
530	535	540
Val Ser Gly Thr Phe Gly Cys Leu Gly Gly Arg Leu Ser Ile Pro Gly		
545	550	555
Thr Gly Val Ser Leu Leu Val Pro Asn Gly Ala Ile Pro Gln Gly Lys		
565	570	575
Phe Tyr Glu Met Tyr Leu Leu Ile Asn Lys Ala Glu Ser Thr Leu Pro		
580	585	590

Leu Ser Glu Gly Thr Gln Thr Val Leu Ser Pro Ser Val Thr Cys Gly
595 600 605

Pro Thr Gly Leu Leu Leu Cys Arg Pro Val Ile Leu Thr Met Pro His
610 615 620

Cys Ala Glu Val Ser Ala Arg Asp Trp Ile Phe Gln Leu Lys Thr Gln
625 630 635 640

Ala His Gln Gly His Trp Glu Glu Val Val Thr Leu Asp Glu Glu Thr
645 650 655

Leu Asn Thr Pro Cys Tyr Cys Gln Leu Glu Pro Arg Ala Cys His Ile
660 665 670

Leu Leu Asp Gln Leu Gly Thr Tyr Val Phe Thr Gly Glu Ser Tyr Ser
675 680 685

Arg Ser Ala Val Lys Arg Leu Gln Leu Ala Val Phe Ala Pro Ala Leu
690 695 700

Cys Thr Ser Leu Glu Tyr Ser Leu Arg Val Tyr Cys Leu Glu Asp Thr
705 710 715 720

Pro Val Ala Leu Lys Glu Val Leu Glu Leu Glu Arg Thr Leu Gly Gly
725 730 735

Tyr Leu Val Glu Glu Pro Lys Pro Leu Met Phe Lys Asp Ser Tyr His
740 745 750

Asn Leu Arg Leu Ser Leu His Asp Leu Pro His Ala His Trp Arg Ser
755 760 765

Lys Leu Leu Ala Lys Tyr Gln Glu Ile Pro Phe Tyr His Ile Trp Ser
770 775 780

Gly Ser Gln Lys Ala Leu His Cys Thr Phe Thr Leu Glu Arg His Ser
785 790 795 800

Leu Ala Ser Thr Glu Leu Thr Cys Lys Ile Cys Val Arg Gln Val Glu
805 810 815

Gly Glu Gly Gln Ile Phe Gln Leu His Thr Thr Leu Ala Glu Thr Pro

820 825 830
 Ala Gly Ser Leu Asp Thr Leu Cys Ser Ala Pro Gly Ser Thr Val Thr
 835 840 845
 Thr Gln Leu Gly Pro Tyr Ala Phe Lys Ile Pro Leu Ser Ile Arg Gln
 850 855 860
 Lys Ile Cys Asn Ser Leu Asp Ala Pro Asn Ser Arg Gly Asn Asp Trp
 865 870 875 880
 Arg Met Leu Ala Gln Lys Leu Ser Met Asp Arg Tyr Leu Asn Tyr Phe
 885 890 895
 Ala Thr Lys Ala Ser Pro Thr Gly Val Ile Leu Asp Leu Trp Glu Ala
 900 905 910
 Leu Gln Gln Asp Asp Gly Asp Leu Asn Ser Leu Ala Ser Ala Leu Glu
 915 920 925
 Glu Met Gly Lys Ser Glu Met Leu Val Ala Val Ala Thr Asp Gly Asp
 930 935 940
 Cys
 945

<210> 3355

<211> 962

<212> PRT

<213> Homo sapiens

<400> 3355

Met Asp Thr Arg Pro Lys Val Ser Ser Leu Leu Asn Arg Met Ala Asn
 1 5 10 15
 Tyr Thr Asn Leu Thr Gln Gly Ala Lys Glu His Glu Glu Ala Glu Asn
 20 25 30

Ile Thr Glu Gly Lys Lys Lys Pro Thr Lys Thr Met Leu Thr Ala Ile
 35 40 45
 Ser Met Ser Ala Ile Ala Thr Asn Gly Val Val Pro Ala Gly Gly Ser
 50 55 60
 Tyr Phe Met Ile Ser Arg Ala Leu Gly Pro Glu Phe Gly Gly Ala Val
 65 70 75 80
 Gly Leu Cys Phe Tyr Leu Gly Thr Thr Phe Ala Ala Ala Met Tyr Ile
 85 90 95
 Leu Gly Ala Ile Glu Ile Phe Leu Val Tyr Ile Val Pro Arg Ala Ala
 100 105 110
 Ile Phe His Ser Asp Asp Ala Leu Lys Glu Ser Ala Ala Met Leu Asn
 115 120 125
 Asn Met Arg Val Tyr Gly Thr Ala Phe Leu Val Leu Met Val Leu Val
 130 135 140
 Val Phe Ile Gly Val Arg Tyr Val Asn Lys Phe Ala Ser Leu Phe Leu
 145 150 155 160
 Ala Cys Val Ile Val Ser Ile Leu Ala Ile Tyr Ala Gly Ala Ile Lys
 165 170 175
 Ser Ser Phe Ala Pro Pro His Phe Pro Val Cys Met Leu Gly Asn Arg
 180 185 190
 Thr Leu Ser Ser Arg His Ile Asp Val Cys Ser Lys Thr Lys Glu Ile
 195 200 205
 Asn Asn Met Thr Val Pro Ser Lys Leu Trp Gly Phe Phe Cys Asn Ser
 210 215 220
 Ser Gln Phe Phe Asn Ala Thr Cys Asp Glu Tyr Phe Val His Asn Asn
 225 230 235 240
 Val Thr Ser Ile Gln Gly Ile Pro Gly Leu Ala Ser Gly Ile Ile Thr
 245 250 255
 Glu Asn Leu Trp Ser Asn Tyr Leu Pro Lys Gly Glu Ile Ile Glu Lys

260	265	270
Pro Ser Ala Lys Ser Ser Asp Val Leu Gly Ser Leu Asn His Glu Tyr		
275	280	285
Val Leu Val Asp Ile Thr Thr Ser Phe Thr Leu Leu Val Gly Ile Phe		
290	295	300
Phe Pro Ser Val Thr Gly Ile Met Ala Gly Ser Asn Arg Ser Gly Asp		
305	310	315
Leu Lys Asp Ala Gln Lys Ser Ile Pro Ile Gly Thr Ile Leu Ala Ile		
325	330	335
Leu Thr Thr Ser Phe Val Tyr Leu Ser Asn Val Val Leu Phe Gly Ala		
340	345	350
Cys Ile Glu Gly Val Val Leu Arg Asp Lys Phe Gly Asp Ala Val Lys		
355	360	365
Gly Asn Leu Val Val Gly Thr Leu Ser Trp Pro Ser Pro Trp Val Ile		
370	375	380
Val Ile Gly Ser Phe Phe Ser Thr Cys Gly Ala Gly Leu Gln Ser Leu		
385	390	395
Thr Gly Ala Pro Arg Leu Leu Gln Ala Ile Ala Lys Asp Asn Ile Ile		
405	410	415
Pro Phe Leu Arg Val Phe Gly His Ser Lys Ala Asn Gly Glu Pro Thr		
420	425	430
Trp Ala Leu Leu Leu Thr Ala Ala Ile Ala Glu Leu Gly Ile Leu Ile		
435	440	445
Ala Ser Leu Asp Leu Val Ala Pro Ile Leu Ser Met Phe Phe Leu Met		
450	455	460
Cys Tyr Leu Phe Val Asn Leu Ala Cys Ala Leu Gln Thr Leu Leu Arg		
465	470	475
Thr Pro Asn Trp Arg Pro Arg Phe Arg Tyr Tyr His Trp Ala Leu Ser		
485	490	495

Phe Met Gly Met Ser Ile Cys Leu Ala Leu Met Phe Ile Ser Ser Trp
500 505 510
Tyr Tyr Ala Ile Val Ala Met Val Ile Ala Gly Met Ile Tyr Lys Tyr
515 520 525
Ile Glu Tyr Gln Gly Ala Glu Lys Glu Trp Gly Asp Gly Ile Arg Gly
530 535 540
Leu Ser Leu Ser Ala Ala Arg Phe Ala Leu Leu Arg Leu Glu Glu Gly
545 550 555 560
Pro Pro His Thr Lys Asn Trp Arg Pro Gln Leu Leu Val Leu Leu Lys
565 570 575
Leu Asp Glu Asp Leu His Val Lys His Pro Arg Leu Leu Thr Phe Ala
580 585 590
Ser Gln Leu Lys Ala Gly Lys Gly Leu Thr Ile Val Gly Ser Val Ile
595 600 605
Val Gly Asn Phe Leu Glu Asn Tyr Gly Glu Ala Leu Ala Ala Glu Gln
610 615 620
Thr Ile Lys His Leu Met Glu Ala Glu Lys Val Lys Gly Phe Cys Gln
625 630 635 640
Leu Val Val Ala Ala Lys Leu Arg Glu Gly Ile Ser His Leu Ile Gln
645 650 655
Ser Cys Gly Leu Gly Gly Met Lys His Asn Thr Val Val Met Gly Trp
660 665 670
Pro Asn Gly Trp Arg Gln Ser Glu Asp Ala Arg Ala Trp Lys Thr Phe
675 680 685
Ile Gly Thr Val Arg Val Thr Thr Ala Ala His Leu Ala Leu Leu Val
690 695 700
Ala Lys Asn Ile Ser Phe Phe Pro Ser Asn Val Glu Gln Phe Ser Glu
705 710 715 720
Gly Asn Ile Asp Val Trp Trp Ile Val His Asp Gly Gly Met Leu Met

725	730	735
Leu Leu Pro Phe Leu Leu Lys Gln His Lys Val Trp Arg Lys Cys Ser		
740	745	750
Ile Arg Ile Phe Thr Val Ala Gln Leu Glu Asp Asn Ser Ile Gln Met		
755	760	765
Lys Lys Asp Leu Ala Thr Phe Leu Tyr His Leu Arg Ile Glu Ala Glu		
770	775	780
Val Glu Val Val Glu Met His Asp Ser Asp Ile Ser Ala Tyr Thr Tyr		
785	790	795
Glu Arg Thr Leu Met Met Glu Gln Arg Ser Gln Met Leu Arg His Met		
805	810	815
Arg Leu Ser Lys Thr Glu Arg Asp Arg Glu Ala Gln Leu Val Lys Asp		
820	825	830
Arg Asn Ser Met Leu Arg Leu Thr Ser Ile Gly Ser Asp Glu Asp Glu		
835	840	845
Glu Thr Glu Thr Tyr Gln Glu Lys Val His Met Thr Trp Thr Lys Asp		
850	855	860
Lys Tyr Met Ala Ser Arg Gly Gln Lys Ala Lys Ser Met Glu Gly Phe		
865	870	875
Gln Asp Leu Leu Asn Met Arg Pro Asp Gln Ser Asn Val Arg Arg Met		
885	890	895
His Thr Ala Val Lys Leu Asn Glu Val Ile Val Asn Lys Ser His Glu		
900	905	910
Ala Lys Leu Val Leu Leu Asn Met Pro Gly Pro Pro Arg Asn Pro Glu		
915	920	925
Gly Asp Glu Asn Tyr Met Glu Phe Leu Glu Val Leu Thr Glu Gly Leu		
930	935	940
Glu Arg Val Leu Leu Val Arg Gly Gly Gly Ser Glu Val Ile Thr Ile		
945	950	955
		960

Tyr Ser

<210> 3356

<211> 377

<212> PRT

<213> Homo sapiens

<400> 3356

Met Leu Lys His Asn Ala Thr Thr His Ser Cys Ser His Pro His Thr

1 5 10 15

Leu Thr Arg Thr Met Tyr Leu Ile Thr His Met Leu Ser His Thr Cys

20 25 30

Thr His Asn Ala Arg Ala His Arg Leu Thr Pro Thr Cys Ser His Thr

35 40 45

Cys Leu Cys Asn Ala Pro Thr Arg Gln Ile Ala Pro Thr Pro Thr His

50 55 60

Leu His Ile His Thr His Ile Cys Pro His Thr Leu Ser Leu Ser His

65 70 75 80

Thr Pro Thr Gln Cys Thr Ser Ser His Ser His Thr Cys Ser His Thr

85 90 95

His Ser Leu Thr Cys Pro His Thr Leu Ala Pro Thr Arg His Thr His

100 105 110

Ser His Ala Cys Thr His Pro His Val Gln Thr His Thr Ala Ser Ala

115 120 125

Tyr Thr Phe Thr Thr His Ser His Thr Pro Gly His Thr His Ser Cys

130 135 140

Ser His Leu Ile His Thr His Ser His Ala His Ser His Pro Pro Asn

145 150 155 160
Ala Pro Thr His Thr His Ala His Thr Leu Arg Pro Thr Tyr Cys Pro
 165 170 175
His Thr Arg Ser His Pro Met His Leu Leu Thr Leu Ile Arg Pro Leu
 180 185 190
Thr Pro Ala His Thr His Leu Thr Pro Gly Ser His Thr His Val His
 195 200 205
Thr Pro Ala His Thr Pro His Thr Arg Ser His Asn His Thr Cys Leu
 210 215 220
Tyr Leu Leu Thr His Ala Cys Thr Asn Thr Pro Ala Tyr Thr Ser Tyr
225 230 235 240
Thr Ala His Pro His Thr Leu His Cys Ser Pro Ser His Thr His Ala
 245 250 255
Pro Ala His Thr His Met Leu Thr Pro His His Ser Leu Thr His Ile
 260 265 270
His Ser His Met Ile Ala Pro Thr His Thr Ser His Thr Leu Ala Arg
 275 280 285
Thr His Leu Leu Thr His Ile Ser Arg Tyr Ser Ala Pro His Ala His
 290 295 300
Thr Cys Ser His Thr Ser His Ile Thr Gln Leu His Thr Arg Pro Cys
305 310 315 320
Ser His Thr Cys Ala His Thr Pro His Thr Ile His Ser Arg Thr His
 325 330 335
Pro Leu Thr His Ala His Val Cys Ser His Thr Cys Ser Pro Ile His
 340 345 350
Thr His Thr Ser Ser His Thr Ser His Gln Val Ser His Thr Leu Met
 355 360 365
Leu Thr Asn Ser Cys Ser His Thr Cys
 370 375

<210> 3357

<211> 147

<212> PRT

<213> Homo sapiens

<400> 3357

Met Leu Pro Glu Ala Glu Gly Ile Gly Ser Gln Cys Leu Thr His Thr

1 5 10 15

Met Arg Phe Gly Arg Gln Gly Ser Asn Met Gln Arg Trp Gln Leu Cys

20 25 30

Ser Gln Pro Thr Glu Leu Arg Gly Thr Ser Leu Gln Ser Trp Gln Thr

35 40 45

Leu Ala Gln Asp Thr Thr Gly Phe Phe Leu Leu Leu Met Asn Phe His

50 55 60

Glu Ala Val Gly Glu Leu Phe Ser Arg Ser Val Gly Glu Leu Thr Ile

65 70 75 80

Gln Lys Val Ile Ser Tyr Tyr Ser Asp Pro Cys Val Tyr Pro Arg Glu

85 90 95

Asp Leu Leu Ile Ile Asn Lys Val His Trp Thr Cys Tyr Ser Val Leu

100 105 110

Cys Ala Cys Cys Leu Glu Val Leu Met Phe Ser His Val Gly Met Gly

115 120 125

Phe Gly His Pro Val Ile Trp Gln Thr Ile Ser Ala Ser Thr Lys Arg

130 135 140

Pro Val Arg

145

<210> 3358

<211> 174

<212> PRT

<213> Homo sapiens

<400> 3358

Met Gly Leu Ala Gly Phe Thr Lys Gln Glu Arg Arg Arg His Arg Leu

1 5 10 15

Asp Lys Gly Arg Trp Thr Gly Gln Pro Ala Val Gln Gln Pro His Arg

20 25 30

Thr Gln Leu Pro Asp Arg Glu His Gln Leu Thr Leu Ile Pro Pro Ala

35 40 45

Pro Gly Asn Ala Thr Ala Glu Glu Ser Leu Gln Asp Gly Pro Asp Thr

50 55 60

Leu Leu Gln His Gly Cys Trp Glu Pro Ala Gln Ala Arg His Phe Ser

65 70 75 80

Thr Gly Ala Ile Glu Asn Ser Leu Arg Gln Lys Gly Leu Cys Gln Pro

85 90 95

Thr Glu Val Thr Ser Pro Ser Ala Asp Gln Ala Ser Gly Pro Val Ala

100 105 110

Leu Gln Asn Ser Lys Ser His Leu Cys Arg Ser Gln Pro Ile Leu Leu

115 120 125

Pro Pro Val Phe Ile Ser Cys Pro Glu Gln Val Gln Asn Arg Gly Pro

130 135 140

Ser Met Gly Glu Lys Ser Leu Cys Leu Gln Ala Val Phe Phe Thr Val

145 150 155 160

Thr Ser His Tyr Phe Cys Ala Arg Ser His Phe Ser Gly Ser

165 170

<210> 3359

<211> 635

<212> PRT

<213> Homo sapiens

<400> 3359

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Met Asp Met Trp Ser Val Asn Pro Ser Asn Lys Pro Ser Leu Pro Ser
  1              5              10              15
Val Phe Ser Leu Pro Val Ser Val Phe Arg Arg Tyr His Leu Pro Val
              20              25              30
His Val Ile Gly His His Ala Val Ser Pro Tyr Ser Ile Val Leu Pro
              35              40              45
Leu Ser Ala Asp Cys Leu Ala Leu Lys Pro Val Ser Asp Met Leu Arg
              50              55              60
Ile Ala Trp Asn Leu Ser Trp Tyr His Gly Ser Asp Asn Leu Leu Lys
  65              70              75              80
Gln Met Asn Ser Glu Thr Lys Thr Gln Glu Ile Leu Asp Ala Leu Lys
              85              90              95
Leu Ser Thr Glu Asp Ile Leu Thr Leu Lys Ile Thr His Met Ala Ser
              100             105             110
Gly Leu Gln Asp Cys Leu His Ser Ile Val Gln Ala Ala Thr His Arg
              115             120             125
Glu Val Arg Ala Ala Val Thr Arg Met Ser Phe Tyr Leu Leu Asn Asp
              130             135             140
Arg Leu Ser Leu Lys Gly Cys Pro Gly Pro Cys Gly Val Thr Leu Lys
  145             150             155             160
Ser Leu Ala Trp His Thr Ala Leu Asn Arg Phe Leu Gln Val Leu Pro

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165	170	175
Ala Cys Thr Glu Asp Glu Lys Leu Leu Ile Asp Ile Ile His Phe Leu		
180	185	190
Asn Lys Leu Ile Lys Glu Gln Arg Lys Asn Ser Ser Leu Glu Leu Leu		
195	200	205
Asn Trp Ile Leu Glu Leu Leu Leu Arg His Ser Ala Asn Pro Leu Leu		
210	215	220
Asp Leu Leu Val Leu Thr Glu Ser Gln Ala Arg Glu Glu Thr Asp Asp		
225	230	235
Ile Arg Thr Ala Val Arg Gln Gln Leu Gln Lys Glu Leu Ile Ala Leu		
245	250	255
Phe Asp Thr Leu Leu Leu Asn Phe Met Glu Val Thr Asp Arg Lys Cys		
260	265	270
Ser Glu Leu Leu Tyr Val Phe Gln Thr Gln Leu Ala Leu Lys Leu Leu		
275	280	285
Gln Cys Leu Lys Val Thr Asp Ala Pro His Phe Tyr Gly Leu Pro Ser		
290	295	300
Leu Glu Arg Thr Leu Arg Gly Met Ala Asn Leu Thr Ala Phe Pro Gly		
305	310	315
Trp Ser Ser His Ser Pro Leu Thr Lys Pro Leu Asp Ile Cys Val Lys		
325	330	335
Tyr Leu Ser Gly Leu Leu Glu Val Ile Thr Ser Phe Tyr Val Glu Arg		
340	345	350
Gly Gly Asn Ala Met Ser Phe Met Gly Lys Gly Val Thr Lys Ser Thr		
355	360	365
Ile Leu Cys Leu Leu His Leu Ser His Glu Met Met Ala Gln Ala Gly		
370	375	380
Ser Leu Glu Trp Met Ser Leu Trp Phe Leu Pro Leu Gly Ser His Ser		
385	390	395
		400

Gly Glu His Ile Pro Thr Gln Gln Gly Leu Ala Trp Leu Ile Pro Leu
 405 410 415
 Trp Val Asp Arg Asp Pro Glu Val Arg Phe Thr Ser Leu Gly Leu Gly
 420 425 430
 Ser Ala Leu Thr Thr Leu Glu Thr Gly Cys Val Ala Leu Ala Asn Ser
 435 440 445
 Cys Gln Asn Ile Ser Gly Gly Leu Trp Gly Thr Val Val Asn Ile Leu
 450 455 460
 Leu Asp Gln Ser Glu Cys Ser Met Val Arg Arg Glu Ala Ala Phe Ile
 465 470 475 480
 Leu Gln Asn Leu Leu Val Ile Pro Met Pro Thr Glu Ile Ile Lys Asp
 485 490 495
 Tyr Thr Trp Gln Gly Pro Cys Val His Asp Glu Asp Ser Gly Leu Ser
 500 505 510
 Leu Ile Gly Lys Pro Ala Leu Gln Ala Leu Leu Tyr His Cys His Phe
 515 520 525
 Tyr Glu His Leu Asn Gln Met Val Lys His Cys Tyr Leu Gly Arg Cys
 530 535 540
 Met Phe Asp Leu Asn Phe Ser Ala Phe Asp Arg Asn Ser Glu Ser Asn
 545 550 555 560
 Asp Leu Asn Gly Leu Asp Asp Ser Phe Lys Phe Trp Arg Ala Pro Ser
 565 570 575
 Arg Thr Ser Gln Asp Arg Asp Pro Ser Ser Leu Ser Thr Ser Glu Thr
 580 585 590
 Thr Val Ala Pro Ser Leu Gly Ser Thr Glu Phe Gln Pro Leu Val Gln
 595 600 605
 Ser Thr Thr Leu Leu Pro Glu Ala Ser His Asp Gln Phe Val Ala Gln
 610 615 620
 Gly Asn Arg His Phe Val Thr Asn Ile Gln Phe

625

630

635

<210> 3360

<211> 309

<212> PRT

<213> Homo sapiens

<400> 3360

Met Ala Val Asn Gln Ser His Thr Glu Asn Arg Arg Gly Ala Leu Ile

1

5

10

15

Pro Asn Gly Glu Ser Leu Leu Lys Arg Ser Pro Asn Val Glu Leu Ser

20

25

30

Phe Pro Gln Arg Ser Glu Gly Ser Asn Val Phe Ser Gly Arg Lys Thr

35

40

45

Gly Thr Leu Phe Leu Thr Ser Tyr Arg Val Ile Phe Ile Thr Ser Cys

50

55

60

Ser Ile Ser Asp Pro Met Leu Ser Phe Met Met Pro Phe Asp Leu Met

65

70

75

80

Thr Asn Leu Thr Val Glu Gln Pro Val Phe Ala Ala Asn Phe Ile Lys

85

90

95

Gly Thr Ile Gln Ala Ala Pro Tyr Gly Gly Trp Glu Gly Gln Ala Thr

100

105

110

Phe Lys Leu Val Phe Arg Asn Gly Asp Ala Ile Glu Phe Ala Gln Leu

115

120

125

Met Val Lys Ala Ala Ser Ala Ala Ala Arg Gly Phe Pro Leu Arg Thr

130

135

140

Leu Asn Asp Trp Phe Ser Ser Met Gly Ile Tyr Val Ile Thr Gly Glu

145

150

155

160

Gly Asn Met Cys Thr Pro Gln Met Pro Cys Ser Val Ile Val Tyr Gly
 165 170 175
 Ala Pro Pro Ala Gly Tyr Gly Ala Pro Pro Pro Gly Tyr Gly Ala Pro
 180 185 190
 Pro Ala Gly Tyr Gly Ala Gln Pro Val Gly Asn Glu Gly Pro Pro Val
 195 200 205
 Gly Tyr Arg Ala Ser Pro Val Arg Tyr Gly Ala Pro Pro Leu Gly Tyr
 210 215 220
 Gly Ala Pro Pro Ala Gly Tyr Gly Ala Pro Pro Leu Gly Tyr Gly Ala
 225 230 235 240
 Pro Pro Leu Gly Tyr Gly Thr Pro Pro Leu Gly Tyr Gly Ala Pro Pro
 245 250 255
 Leu Gly Tyr Gly Ala Pro Pro Ala Gly Asn Glu Gly Pro Pro Ala Gly
 260 265 270
 Tyr Arg Ala Ser Pro Ala Gly Ser Gly Ala Arg Pro Gln Glu Ser Thr
 275 280 285
 Ala Ala Gln Ala Pro Glu Asn Glu Ala Ser Leu Pro Ser Ala Ser Ser
 290 295 300
 Ser Gln Val His Ser
 305

<210> 3361

<211> 524

<212> PRT

<213> Homo sapiens

<400> 3361

Met Glu Arg Ala Gly Trp Ser Ala Asn Leu Ala Trp Leu Ser Gly Gly

1	5	10	15
Ile Thr Leu Cys Ser Gly Glu Arg Glu Ala Arg Asp Arg Gly Leu Gly			
20	25	30	
Arg Ser Val Asn Gln Pro Lys Ala Gly Ala Leu Glu Lys Leu Gln Thr			
35	40	45	
Ser Met Lys Asn Met Glu Lys Glu Leu Leu Cys Pro Val Cys Gln Glu			
50	55	60	
Met Tyr Lys Gln Pro Leu Val Leu Pro Cys Thr His Asn Val Cys Gln			
65	70	75	80
Ala Cys Ala Arg Glu Val Leu Gly Gln Gln Gly Tyr Ile Gly His Gly			
85	90	95	
Gly Asp Pro Ser Ser Glu Pro Thr Ser Pro Ala Ser Thr Pro Ser Thr			
100	105	110	
Arg Ser Pro Arg Leu Ser Arg Arg Thr Leu Pro Lys Pro Asp Arg Leu			
115	120	125	
Asp Arg Leu Leu Lys Ser Gly Phe Gly Thr Tyr Pro Gly Arg Lys Arg			
130	135	140	
Gly Ala Leu His Pro Gln Val Ile Met Phe Pro Cys Pro Ala Cys Gln			
145	150	155	160
Gly Asp Val Glu Leu Gly Glu Arg Gly Leu Ala Gly Leu Phe Arg Asn			
165	170	175	
Leu Thr Leu Glu Arg Val Val Glu Arg Tyr Arg Gln Ser Val Ser Val			
180	185	190	
Gly Gly Ala Ile Leu Cys Gln Leu Cys Lys Pro Pro Pro Leu Glu Ala			
195	200	205	
Thr Lys Gly Cys Thr Glu Cys Arg Ala Thr Phe Cys Asn Glu Cys Phe			
210	215	220	
Lys Leu Phe His Pro Trp Gly Thr Gln Lys Ala Gln His Glu Pro Thr			
225	230	235	240

Leu Pro Thr Leu Ser Phe Arg Pro Lys Gly Leu Met Cys Pro Asp His
 245 250 255
 Lys Glu Glu Val Thr His Tyr Cys Lys Thr Cys Gln Arg Leu Val Cys
 260 265 270
 Gln Leu Cys Arg Val Arg Arg Thr His Ser Gly His Lys Ile Thr Pro
 275 280 285
 Val Leu Ser Ala Tyr Gln Ala Leu Lys Asp Lys Leu Thr Lys Ser Leu
 290 295 300
 Thr Tyr Ile Leu Gly Asn Gln Asp Thr Val Gln Thr Gln Ile Cys Glu
 305 310 315 320
 Leu Glu Glu Ala Val Arg His Thr Glu Val Ser Gly Gln Gln Ala Lys
 325 330 335
 Glu Glu Val Ser Gln Leu Val Arg Gly Leu Gly Ala Val Leu Glu Glu
 340 345 350
 Lys Arg Ala Ser Leu Leu Gln Ala Ile Glu Glu Cys Gln Gln Glu Arg
 355 360 365
 Leu Ala Arg Leu Ser Ala Gln Ile Gln Glu His Arg Ser Leu Leu Asp
 370 375 380
 Gly Ser Gly Leu Val Gly Tyr Ala Gln Glu Val Leu Lys Glu Thr Asp
 385 390 395 400
 Gln Pro Cys Phe Val Gln Ala Ala Lys Gln Leu His Asn Arg Ile Ala
 405 410 415
 Arg Ala Thr Glu Ala Leu Gln Thr Phe Arg Pro Ala Ala Ser Ser Ser
 420 425 430
 Phe Arg His Cys Gln Leu Asp Val Gly Arg Glu Met Lys Leu Leu Thr
 435 440 445
 Glu Leu Asn Phe Leu Arg Gly Cys Gly His Arg Gly Leu Cys Ser Gly
 450 455 460
 Ala Pro Gln Cys Leu Arg Pro Pro Ser Leu Thr Pro Ser Ala Pro Leu

465 470 475 480
 Pro Met Ile Arg Ser Ser Cys Ala Gly Gly Cys Pro Pro Ile His His
 485 490 495
 Leu Pro Gly Thr Ile Pro Leu Ser Ser Gly Ala Arg Met Cys Leu Leu
 500 505 510
 Ser Gln Ala Pro Pro Ala Gly Ser Gly Gly Arg Arg
 515 520

<210> 3362

<211> 280

<212> PRT

<213> Homo sapiens

<400> 3362

Met Thr Ser Leu Thr His Gly Met His Leu Thr Ser Ser Thr Ser Cys
 1 5 10 15
 Ser Cys Gln Ser Ser Gly Thr Ser Phe Thr Ser Cys Ser Cys Arg Ser
 20 25 30
 Ser Gly Thr Ser Ser Thr Ser Arg Ser Trp Trp Ser Ser Gly Thr Ser
 35 40 45
 Ser Thr Ser Cys Ser Trp Trp Ser Ser Gly Thr Ser Ser Thr Phe Cys
 50 55 60
 Ser Cys Trp Ser Ser Gly Thr Ser Phe Thr Ser Cys Ser Cys Trp Ser
 65 70 75 80
 Ser Gly Thr Ser Ser Thr Pro Cys Ser Cys Arg Ser Ser Gly Thr Ser
 85 90 95
 Ser Thr Ser Cys Ser Cys Trp Ser Ser Gly Thr Ser Ser Thr Ser Trp
 100 105 110

Ser Cys Lys Ser Ser Gly Thr Ser Ser Thr Cys Tyr Met Cys Leu Ser
115 120 125
Ser Gly Thr Ser Ser Thr Ser Tyr Ser Ser Trp Ser Ser Gln Thr Ser
130 135 140
Ser Thr Ser Ser Met Cys Leu Pro Ser Arg Thr Ser Ser Ile Phe Tyr
145 150 155 160
Ser Cys Leu Pro Leu Gly His His Leu Pro Phe Cys Ser Val Arg Pro
165 170 175
Leu Gly Pro Pro Thr Thr Ser Pro Leu Ser Asn Leu Trp Ile Leu Ser
180 185 190
His Pro Phe Tyr Leu Gly Gly Val Trp Pro Leu Asn Asn His Leu His
195 200 205
Met Asn Leu Leu Gly Tyr Phe Asn Asn Leu His Leu Trp Ser Leu Gly
210 215 220
Leu Gln Pro Leu Pro Pro Pro Gly Ser Pro Leu Val His Leu Pro Pro
225 230 235 240
Pro Pro Leu Gly Trp Pro Leu Leu Ser Glu Leu Leu Gln Asp Leu Asn
245 250 255
Gln Leu Pro Tyr Pro Leu Leu Pro Val Gly Pro Arg Pro Arg Pro Pro
260 265 270
His Val Leu Leu Gly Ile Phe Ile
275 280

<210> 3363

<211> 103

<212> PRT

<213> Homo sapiens

<400> 3363

Met Thr Thr Gln Ser Val Ala Leu Val Ser Glu Leu Met Thr Gln Lys
1 5 10 15
Leu His Val Leu Gln Gln Gly Gln Ala Ile Thr Thr Leu Cys Gly Leu
20 25 30
Thr Ser Gly His Gly Pro Arg Lys Ala Gly Phe Gln Ala Ser Leu Leu
35 40 45
Gln Pro Pro Ala Ser Pro Cys Pro Thr Pro Arg Ser Ser Phe Leu Leu
50 55 60
Pro Glu Glu Gln Arg Gly Lys Asn Thr Arg Arg Lys Ser Ala Ser Pro
65 70 75 80
Trp Pro Gln Arg Thr Ser Cys Leu Trp Ala Ala Ala Gln Ala Thr Cys
85 90 95
Ser Gly Pro Arg Gln Ala Cys
100

<210> 3364

<211> 209

<212> PRT

<213> Homo sapiens

<400> 3364

Met Ile Thr Arg Glu His Thr Asp Thr Phe Thr Ser Thr Val Cys Thr
1 5 10 15
Gln Arg Lys Cys Leu Leu Asn Gln Arg Ala His Ile Ser Ser Pro Pro
20 25 30
Pro Cys Val Arg Arg Glu Ser Ala Ser Ser Thr Arg Glu His Thr Tyr
35 40 45

Leu His Leu His Arg Val Tyr Ala Glu Lys Ala Pro Pro Gln Pro Glu
50 55 60
Ser Thr Gln Ile Pro Ser Pro Pro Pro Ser Thr Val Cys Met Gln Arg
65 70 75 80
Lys Cys Leu Leu Asn Gln Arg Ala His Ile Ser Ser Pro Pro Pro Cys
85 90 95
Val Arg Arg Glu Ser Ala Ser Ser Thr Arg Glu His Thr Tyr Leu His
100 105 110
Leu His Arg Val Tyr Ala Glu Lys Val Pro Pro Gln Pro Glu Ser Thr
115 120 125
His Ile Phe Thr Cys Thr Val Cys Thr Gln Arg Lys Cys Leu Leu Asn
130 135 140
Gln Arg Ala His Ile Ser Ser Pro Pro Pro Cys Val Arg Arg Glu Ser
145 150 155 160
Ala Ser Ser Thr Arg Glu His Thr Tyr Leu His Leu His Cys Val Tyr
165 170 175
Ala Glu Lys Val Pro Pro Gln Pro Glu Gly Thr Gln Ile Ser Ser Pro
180 185 190
Pro Pro Cys Val Arg Arg Glu Ser Ala Ser Ser Thr Arg Gly Phe Gln
195 200 205
Leu

<210> 3365

<211> 1263

<212> PRT

<213> Homo sapiens

<400> 3365

Met Pro Arg Lys Gly Thr Gln Pro Ser Thr Ala Arg Arg Arg Glu Glu
 1 5 10 15
 Gly Pro Pro Pro Pro Ser Pro Asp Gly Ala Ser Ser Asp Ala Glu Pro
 20 25 30
 Glu Pro Pro Ser Gly Arg Thr Glu Ser Pro Ala Thr Ala Ala Ala Met
 35 40 45
 Thr Asn Glu Ala Gly Ala Pro Arg Leu Met Ile Thr His Ile Val Asn
 50 55 60
 Gln Asn Phe Lys Ser Tyr Ala Gly Glu Lys Ile Leu Gly Pro Phe His
 65 70 75 80
 Lys Arg Phe Ser Cys Ile Ile Gly Pro Asn Gly Ser Gly Lys Ser Asn
 85 90 95
 Val Ile Asp Ser Met Leu Phe Val Phe Gly Tyr Arg Ala Gln Lys Ile
 100 105 110
 Arg Ser Lys Lys Leu Ser Val Leu Ile His Asn Ser Asp Glu His Lys
 115 120 125
 Asp Ile Gln Ser Cys Thr Val Glu Val His Phe Gln Lys Ile Ile Asp
 130 135 140
 Lys Glu Gly Asp Asp Tyr Glu Val Ile Pro Asn Ser Asn Phe Tyr Val
 145 150 155 160
 Ser Arg Thr Ala Cys Arg Asp Asn Thr Ser Val Tyr His Ile Ser Gly
 165 170 175
 Lys Lys Lys Thr Phe Lys Asp Val Gly Asn Leu Leu Arg Ser His Gly
 180 185 190
 Ile Asp Leu Asp His Asn Arg Phe Leu Ile Leu Gln Gly Glu Val Glu
 195 200 205
 Gln Ile Ala Met Met Lys Pro Lys Gly Gln Thr Glu His Asp Glu Gly
 210 215 220

Met Leu Glu Tyr Leu Glu Asp Ile Ile Gly Cys Gly Arg Leu Asn Glu
225 230 235 240
Pro Ile Lys Val Leu Cys Arg Arg Val Glu Ile Leu Asn Glu His Arg
245 250 255
Gly Glu Lys Leu Asn Arg Val Lys Met Val Glu Lys Glu Lys Asp Ala
260 265 270
Leu Glu Gly Glu Lys Asn Ile Ala Ile Glu Phe Leu Thr Leu Glu Asn
275 280 285
Glu Ile Phe Arg Lys Lys Asn His Val Cys Gln Tyr Tyr Ile Tyr Glu
290 295 300
Leu Gln Lys Arg Ile Ala Glu Met Glu Thr Gln Lys Glu Lys Ile His
305 310 315 320
Glu Asp Thr Lys Glu Ile Asn Glu Lys Ser Asn Ile Leu Ser Asn Glu
325 330 335
Met Lys Ala Lys Asn Lys Asp Val Lys Asp Thr Glu Lys Lys Leu Asn
340 345 350
Lys Ile Thr Lys Phe Ile Glu Glu Asn Lys Glu Lys Phe Thr Gln Leu
355 360 365
Asp Leu Glu Asp Val Gln Val Arg Glu Lys Leu Lys His Ala Thr Ser
370 375 380
Lys Ala Lys Lys Leu Glu Lys Gln Leu Gln Lys Asp Lys Glu Lys Val
385 390 395 400
Glu Glu Phe Lys Ser Ile Pro Ala Lys Ser Asn Asn Ile Ile Asn Glu
405 410 415
Thr Thr Thr Arg Asn Asn Ala Leu Glu Lys Glu Lys Glu Lys Glu Glu
420 425 430
Lys Lys Leu Lys Glu Val Met Asp Ser Leu Lys Gln Glu Thr Gln Gly
435 440 445
Leu Gln Lys Glu Lys Glu Ser Arg Glu Lys Glu Leu Met Gly Phe Ser

450 455 460
Lys Ser Val Asn Glu Ala Arg Ser Lys Met Asp Val Ala Gln Ser Glu
465 470 475 480
Leu Asp Ile Tyr Leu Ser Arg His Asn Thr Ala Val Ser Gln Leu Thr
 485 490 495
Lys Ala Lys Glu Ala Leu Ile Ala Ala Ser Glu Thr Leu Lys Glu Arg
 500 505 510
Lys Ala Ala Ile Arg Asp Ile Glu Gly Lys Leu Pro Gln Thr Glu Gln
 515 520 525
Glu Leu Lys Glu Lys Glu Lys Glu Leu Gln Lys Leu Thr Gln Glu Glu
 530 535 540
Thr Asn Phe Lys Ser Leu Val His Asp Leu Phe Gln Lys Val Glu Glu
545 550 555 560
Ala Lys Ser Ser Leu Ala Met Asn Arg Ser Arg Gly Lys Val Leu Asp
 565 570 575
Ala Ile Ile Gln Glu Lys Lys Ser Gly Arg Ile Pro Gly Ile Tyr Gly
 580 585 590
Arg Leu Gly Asp Leu Gly Ala Ile Asp Glu Lys Tyr Asp Val Ala Ile
 595 600 605
Ser Ser Cys Cys His Ala Leu Asp Tyr Ile Val Val Asp Ser Ile Asp
 610 615 620
Ile Ala Gln Glu Cys Val Asn Phe Leu Lys Arg Gln Asn Ile Gly Val
625 630 635 640
Ala Thr Phe Ile Gly Leu Asp Lys Met Ala Val Trp Ala Lys Lys Met
 645 650 655
Thr Glu Ile Gln Thr Pro Glu Asn Thr Pro Arg Leu Phe Asp Leu Val
 660 665 670
Lys Val Lys Asp Glu Lys Ile Arg Gln Ala Phe Tyr Phe Ala Leu Arg
 675 680 685

Asp Thr Leu Val Ala Asp Asn Leu Asp Gln Ala Thr Arg Val Ala Tyr
 690 695 700
 Gln Lys Asp Arg Arg Trp Arg Val Val Thr Leu Gln Gly Gln Ile Ile
 705 710 715 720
 Glu Gln Ser Gly Thr Met Thr Gly Gly Gly Ser Lys Val Met Lys Gly
 725 730 735
 Arg Met Gly Ser Ser Leu Val Ile Glu Ile Ser Glu Glu Glu Val Asn
 740 745 750
 Lys Met Glu Ser Gln Leu Gln Asn Asp Ser Lys Lys Ala Met Gln Ile
 755 760 765
 Gln Glu Gln Lys Val Gln Leu Glu Glu Arg Val Val Lys Leu Arg His
 770 775 780
 Ser Glu Arg Glu Met Arg Asn Thr Leu Glu Lys Phe Thr Ala Ser Ile
 785 790 795 800
 Gln Arg Leu Ile Glu Gln Glu Glu Tyr Leu Asn Val Gln Val Lys Glu
 805 810 815
 Leu Glu Ala Asn Val Leu Ala Thr Ala Pro Asp Lys Lys Lys Gln Lys
 820 825 830
 Leu Leu Glu Glu Asn Val Ser Ala Phe Lys Thr Glu Tyr Asp Ala Val
 835 840 845
 Ala Glu Lys Ala Gly Lys Val Glu Ala Glu Val Lys Arg Leu His Asn
 850 855 860
 Thr Ile Val Glu Ile Asn Asn His Lys Leu Lys Ala Gln Gln Asp Lys
 865 870 875 880
 Leu Asp Lys Ile Asn Lys Gln Leu Asp Glu Cys Ala Ser Ala Ile Thr
 885 890 895
 Lys Ala Gln Val Ala Ile Lys Thr Ala Asp Arg Asp Leu Gln Lys Ala
 900 905 910
 Gln Asp Ser Val Leu Arg Thr Glu Lys Glu Ile Lys Asp Thr Glu Lys

915 920 925
Glu Val Asp Asp Leu Thr Ala Glu Leu Lys Ser Leu Glu Asp Lys Ala
930 935 940
Ala Glu Val Val Lys Asn Thr Asn Ala Ala Glu Glu Ser Leu Pro Glu
945 950 955 960
Ile Gln Lys Glu His Arg Asn Leu Leu Gln Glu Leu Lys Val Ile Gln
965 970 975
Glu Asn Glu His Ala Leu Gln Lys Asp Ala Leu Ser Ile Lys Leu Lys
980 985 990
Leu Glu Gln Ile Asp Gly His Ile Ala Glu His Asn Ser Lys Ile Lys
995 1000 1005
Tyr Trp His Lys Glu Ile Ser Lys Ile Ser Leu His Pro Ile Glu Asp
1010 1015 1020
Asn Pro Ile Glu Glu Ile Ser Val Leu Ser Pro Glu Asp Leu Glu Ala
1025 1030 1035 1040
Ile Lys Asn Pro Asp Ser Ile Thr Asn Gln Ile Ala Leu Leu Glu Ala
1045 1050 1055
Arg Cys His Glu Met Lys Pro Asn Leu Gly Ala Ile Ala Glu Tyr Lys
1060 1065 1070
Lys Lys Glu Glu Leu Tyr Leu Gln Arg Val Ala Glu Leu Asp Lys Ile
1075 1080 1085
Thr Tyr Glu Arg Asp Ser Phe Arg Gln Ala Tyr Glu Asp Leu Arg Lys
1090 1095 1100
Gln Arg Leu Asn Glu Phe Met Ala Gly Phe Tyr Ile Ile Thr Asn Lys
1105 1110 1115 1120
Leu Lys Glu Asn Tyr Gln Met Leu Thr Leu Gly Gly Asp Ala Glu Leu
1125 1130 1135
Glu Leu Val Asp Ser Leu Asp Pro Phe Ser Glu Gly Ile Met Phe Ser
1140 1145 1150

Val Arg Pro Pro Lys Lys Ser Trp Lys Lys Ile Phe Asn Leu Ser Gly

1155

1160

1165

Gly Glu Lys Thr Leu Ser Ser Leu Ala Leu Val Phe Ala Leu His His

1170

1175

1180

Tyr Lys Pro Thr Pro Leu Tyr Phe Met Asp Glu Ile Asp Ala Ala Leu

1185

1190

1195

1200

Asp Phe Lys Asn Val Ser Ile Val Ala Phe Tyr Ile Tyr Glu Gln Thr

1205

1210

1215

Lys Asn Ala Gln Phe Ile Ile Ile Ser Leu Arg Asn Asn Met Phe Glu

1220

1225

1230

Ile Ser Asp Arg Leu Ile Gly Ile Tyr Lys Thr Tyr Asn Ile Thr Lys

1235

1240

1245

Ser Val Ala Val Asn Pro Lys Glu Ile Ala Ser Lys Gly Leu Cys

1250

1255

1260

<210> 3366

<211> 353

<212> PRT

<213> Homo sapiens

<400> 3366

Met Pro Leu Gly Arg Leu Ala Gly Ser Ala Arg Ser Glu Glu Gly Ser

1

5

10

15

Glu Ala Phe Leu Glu Gly Met Val Asp Trp Glu Leu Ser Arg Leu Gln

20

25

30

Arg Gln Cys Lys Val Met Glu Gly Glu Arg Arg Ala Tyr Ser Lys Glu

35

40

45

Val His Gln Arg Ile Asn Lys Gln Leu Glu Glu Ile Arg Arg Leu Glu

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Ala Glu Gly Val Trp Lys Thr Ser Gln Glu Arg Leu Val Leu Cys Tyr
 290 295 300
 Glu Asp Ala Leu Asn Lys Leu Ser Gln Leu Met Gly Glu Ser Asp Pro
 305 310 315 320
 Asp Leu Leu Val Gln Lys Tyr Leu Glu Thr Phe Pro Leu Cys Leu Ala
 325 330 335
 Val Tyr Phe Cys Val Pro Pro Ala Val Ser Ser His Thr Ser Leu Ser
 340 345 350
 Leu

<210> 3367

<211> 178

<212> PRT

<213> Homo sapiens

<400> 3367

Met Glu Thr Gly Pro Ser Glu Glu Pro Ser Gly Arg Lys Glu Ser Gln
 1 5 10 15
 Glu Met Cys Pro Pro Gly Leu Leu Val Phe Ala Gly Ser Ser Glu Gln
 20 25 30
 Asp Ala Asn Leu Ala Lys Gln Phe Trp Ile Ser Ala Ser Met Tyr Pro
 35 40 45
 Pro Ser Glu Ser Gln Leu Val Leu Arg Arg Asp Ser Ser Gln Arg Leu
 50 55 60
 Pro Val Ala Arg Pro Arg Arg Ser Arg Gly Ser Glu Asn Ser His Ser
 65 70 75 80
 Ser Gln Ser Phe His Leu Ala Ser Asn Lys Asn Arg Asp Ile Phe Ala

	85		90		95										
Glu	Ala	Leu	Lys	Ile	Gln	Glu	Ser	Glu	Glu	Lys	Val	Lys	Tyr	Leu	Gln
	100		105		110										
Lys	Thr	Arg	Ser	His	Ser	Val	Thr	Gln	Asn	Glu	Val	Gln	Trp	His	Asp
	115		120		125										
His	Gly	Ser	Leu	Gln	Pro	Gln	Leu	Ser	Arg	Ile	Gln	Ala	Lys	Thr	Arg
	130		135		140										
Glu	Glu	Ile	Leu	Gln	Leu	Leu	Arg	Lys	Gln	Arg	Glu	Glu	Arg	Ile	Ser
	145		150		155										
Lys	Glu	Leu	Ile	Ser	Leu	Pro	Tyr	Lys	Pro	Lys	Ala	Lys	Glu	His	Lys
	165		170		175										
Ala	Glu														

<210> 3368

<211> 129

<212> PRT

<213> Homo sapiens

<400> 3368

Met	Lys	Arg	Lys	Gln	Phe	Lys	Thr	Phe	Gly	Leu	Asn	Asn	Ala	Ile	Ile
1				5					10					15	
Phe	Pro	Glu	Met	Leu	His	Leu	Arg	Ser	Thr	Val	Ser	Leu	Ser	Ile	Gly
				20					25					30	
Asp	Ile	Cys	Lys	Cys	Leu	Arg	Gly	Val	Phe	Val	Phe	Cys	Leu	Phe	Val
				35					40					45	
Cys	Leu	Phe	Val	Cys	Leu	Phe	Leu	Arg	Trp	Ser	Leu	Ile	Leu	Ser	Pro
				50					55					60	

<210> 3369
<211> 230
<212> PRT
<213> Homo sapiens

<400> 3369

出証特 2 0 0 4 - 3 0 5 9 6 6 1

	85		90		95										
Gly	Leu	Cys	Pro	Ser	Arg	Cys	Arg	Pro	Pro	Ser	Pro	Asp	Ser	Ala	Pro
	100		105		110										
Leu	Gly	Val	Val	Leu	Pro	Pro	Arg	Thr	Leu	Pro	Leu	Ser	Val	Ser	Ser
	115		120		125										
Ser	Leu	Pro	Gly	Leu	Cys	Pro	Ser	Arg	Cys	Arg	Pro	Pro	Ser	Pro	Asp
	130		135		140										
Ser	Ala	Ser	Leu	Gly	Val	Val	Leu	Pro	Pro	Arg	Thr	Leu	Pro	Leu	Val
	145		150		155										
Leu	Ser	Ser	Ser	Leu	Pro	Gly	Leu	Cys	Leu	Ser	Arg	Cys	Arg	Pro	Pro
	165		170		175										
Ser	Pro	Asp	Ser	Ala	Pro	Leu	Gly	Val	Val	Leu	Pro	Pro	Arg	Thr	Leu
	180		185		190										
Pro	Leu	Ser	Val	Ser	Ser	Ser	Leu	Pro	Gly	Leu	Cys	Leu	Ser	His	Cys
	195		200		205										
Arg	Pro	Pro	Ser	Pro	Asp	Ser	Trp	Asn	Cys	Val	Ser	Ser	Leu	Ser	Pro
	210		215		220										
Ile	Leu	Thr	Leu	Arg	Ser										
	225		230												

<210> 3370

<211> 389

<212> PRT

<213> Homo sapiens

<400> 3370

Met	Ser	Glu	Ile	Arg	Phe	Thr	Asn	Leu	Thr	Trp	Asp	Gln	Val	Ile	Thr
1				5				10					15		

Leu Asp Gln Val Leu Asp Glu Val Ile Pro Ile His Gly Lys Gly Asn
 20 25 30
 Phe Pro Thr Met Glu Val Lys Pro Lys Asp Ile Ile His Val Val Lys
 35 40 45
 Asp Gln Leu Ile Gly Gln Gly Ile Ile Val Lys Asp Ala Arg Leu Asn
 50 55 60
 Gly Ser Val Ala Ser Tyr Ile Leu Ala Ser His Asn Gly Ile Ser Tyr
 65 70 75 80
 Lys Asp Leu Asp Val Ile Phe Gly Val Glu Leu Pro Gly Asn Glu Glu
 85 90 95
 Phe Gln Val Val Lys Asp Ala Val Leu Asp Cys Leu Leu Asp Phe Leu
 100 105 110
 Pro Lys Asp Val Lys Lys Glu Lys Leu Ser Pro Asp Ile Met Lys Asp
 115 120 125
 Ala Tyr Val Gln Lys Leu Val Lys Val Cys Asn Gly His Asp Cys Trp
 130 135 140
 Ser Leu Ile Ser Leu Ser Asn Asn Thr Gly Lys Asn Leu Glu Leu Lys
 145 150 155 160
 Phe Val Ser Ser Leu Arg Arg Gln Phe Glu Phe Ser Val Asp Ser Phe
 165 170 175
 Gln Ile Val Leu Asp Pro Met Leu Glu Phe Tyr Ser Asp Lys Asn Ala
 180 185 190
 Lys Leu Thr Lys Glu Ser Tyr Pro Val Val Val Ala Glu Ser Met Tyr
 195 200 205
 Gly Asp Phe Gln Glu Ala Met Thr His Leu Gln His Lys Leu Ile Cys
 210 215 220
 Thr Arg Lys Pro Glu Glu Ile Arg Gly Gly Gly Leu Leu Lys Tyr Cys
 225 230 235 240
 Ser Leu Leu Val His Gly Phe Lys Pro Ala Cys Met Ser Glu Ile Lys

245	250	255
Asn Leu Glu Arg Tyr Met Cys Ser Arg Phe Phe Ile Asp Phe Pro His		
260	265	270
Ile Glu Glu Gln Gln Lys Lys Ile Glu Ser Tyr Leu His Asn His Phe		
275	280	285
Ile Gly Glu Gly Met Thr Lys Tyr Asp Tyr Leu Met Thr Leu His Gly		
290	295	300
Val Val Asn Glu Ser Thr Val Cys Leu Met Ser Tyr Glu Arg Arg Gln		
305	310	315
Ile Leu His Leu Ile Thr Met Met Ala Leu Lys Val Leu Gly Glu Leu		
325	330	335
Asn Ile Leu Pro Asn Thr Gln Lys Val Thr Cys Phe Tyr Gln Pro Ala		
340	345	350
Pro Tyr Phe Ala Ala Glu Ala Arg Tyr Pro Ile Tyr Val Ile Pro Glu		
355	360	365
Pro Pro Pro Val Ser Phe Gln Pro Tyr His Pro Leu His Phe Arg Gly		
370	375	380
Ser Asn Gly Met Ser		
385		

<210> 3371

<211> 1350

<212> PRT

<213> Homo sapiens

<400> 3371

Met Ser Ser Pro Arg Leu Ile Pro Leu Trp Lys Asp Leu Lys Leu Leu

1

5

10

15

Leu Asn Asp Thr Ile Asn Lys Ser Lys Gln Pro Ser Glu Asp Pro Lys
 20 25 30
 Asn Cys Leu Ile Val Leu Ser Asp Arg Ser Gln Ala Val Ala Trp Met
 35 40 45
 Lys Ser Lys Thr Glu Asp Met Val Glu Lys Arg Thr Phe Ser Met Thr
 50 55 60
 Glu Arg Leu Pro Pro Ile Gln Ser Met Val His Ala Gly Ser Phe His
 65 70 75 80
 Ile Leu Val Val Tyr Cys Gly Asp Leu Ile Leu Arg Leu Phe Gly Asp
 85 90 95
 His Phe Arg Ala Phe Lys Pro Leu Gly Lys Val Pro Cys Arg Phe Asn
 100 105 110
 Ile Ser Cys Leu Cys Tyr Asp Pro Glu Met Lys Met Leu Leu Ser Gly
 115 120 125
 Ile Leu Gly Ala Val Val Thr Trp Val Ile Glu Leu Gly Gly Thr Gly
 130 135 140
 Leu Gln Ile Ala His Met Val Ser Met Pro Gly Asp Glu Leu Val Gln
 145 150 155 160
 Asp Ile Val Leu Asn Gly Pro Ser Gly Ser Leu Leu Ala Leu Cys Glu
 165 170 175
 Ala Val Val Arg Val Leu Met His Gln Gly Lys Gly Gln Leu Gly Glu
 180 185 190
 Val Lys Arg Phe Thr Ser Thr Ser Ser Gly Ser Ser Ile Thr Cys Cys
 195 200 205
 Phe Thr Cys Phe Asp Gln Gly Phe Leu Tyr Ala Gly Asn Gln Ala Gly
 210 215 220
 Glu Ile Gln Val Trp Ser Leu Gln Gln Gly His Pro Leu His Ser Phe
 225 230 235 240
 Gln Ala His Gln Ser Gly Val Ile Cys Ile Arg Ser Arg Pro Glu Ala

245 250 255
His Thr Leu Leu Thr Ala Gly Ser Asp Ser Leu Ile Lys Glu Trp Asn
260 265 270
Leu Thr Ser Gly Ser Leu Leu Arg Arg Leu Glu Leu Gly Glu Glu Leu
275 280 285
Tyr Arg Leu Gln Phe Ile Asp Ser Ile Thr Phe Phe Cys Gln Thr Ala
290 295 300
His Ser Phe Ser Leu His Arg Leu Pro Cys Phe Tyr Ser Leu Phe Asn
305 310 315 320
Val Cys Gly Ser Ala Pro Gln Gln Leu Arg Arg Val Cys Cys Gly Asn
325 330 335
Asn Trp Phe Arg Ile Leu Cys Thr Thr Glu Asp Gly Leu Leu Arg Phe
340 345 350
Val Ser Pro Val Thr Gly Asp Leu Leu Val Ile Thr Trp Pro Phe Ser
355 360 365
Ile Leu Asp Gln Ala Val Asp Trp Ala Tyr Asp Pro Gly Lys Glu Glu
370 375 380
Leu Phe Val Ala Thr Gly Ser Ser Glu Val Leu Val Phe Asp Thr Thr
385 390 395 400
Arg Cys Pro Cys Pro Ala Lys Tyr Leu Leu Gly Thr Ser Pro Asn Ser
405 410 415
Gln Asp Phe Val Gln Cys Leu Ala Tyr Gly His Phe Asn Leu Gly Arg
420 425 430
Gly Leu Glu Gly Leu Ile Phe Ser Gly His Gln Ser Gly Val Ile Arg
435 440 445
Val Leu Ser Gln His Ser Cys Ala Arg Leu Glu Lys Phe Met His Phe
450 455 460
Gly Ala Val Leu Ala Leu Ser Thr Leu Ser Gly Gly Ile Phe Gly Gly
465 470 475 480

出証特 2 0 0 4 - 3 0 5 9 6 6 1

705 710 715 720
Leu Leu Arg Ser Ser Met His Tyr Ser Leu Gln Asp Met Glu Asp Trp
 725 730 735
Met Gln Val Ser Lys Arg Tyr Gln Cys His Tyr Val Leu Pro Pro Gln
 740 745 750
Leu Gln Leu Thr Ser Trp Asp Gly Leu Asn Pro Tyr Gln Ile Leu Arg
 755 760 765
Tyr Tyr Phe Gly His Gly Arg Glu Trp Leu Phe Ala Pro Asp Cys Tyr
 770 775 780
Ile Pro Asn Ser Val Ile Arg Ala Arg Leu Trp Pro Glu Gly Thr Pro
785 790 795 800
Ile Tyr Leu Gln Cys Asn Leu His Ala Pro Gln Arg Glu Leu Glu Trp
 805 810 815
Asp Arg Ser Gln Glu Phe Phe Phe Trp His Ser Arg Val Arg Ala Ile
 820 825 830
Ser Asn Thr Glu Tyr Pro Lys Asn Lys Glu Glu Asp Glu His Phe Leu
 835 840 845
Glu Met Arg Leu Ser Lys Asp Val Thr Tyr Ser Val Leu Thr Asp Gly
 850 855 860
Ala Asn Arg Ser Trp Leu Gly Arg Lys Met Ser Glu Ile Thr Ile Asn
865 870 875 880
Ser Met Ile Glu Thr Met Leu Asn Ile Met Val His Ala Ser Leu Leu
 885 890 895
Lys Tyr Gln Cys Cys Val Gly Ala Leu Gly Gln Ile Phe Ala Ser Tyr
 900 905 910
Gln Val Ser Pro Ala Leu Arg Ser Glu Thr Ala Arg Arg Leu Leu Asn
 915 920 925
Asp Thr Thr Asn Ser Asn Pro Leu Ile Arg Glu Leu Ala Trp Glu Gly
 930 935 940

Leu Lys Arg Leu Gly Met Ile Thr His Leu Phe Ala Met Pro Leu Ala
945 950 955 960
Gln Gly Leu Met Asp Lys Asp Glu Arg Val Arg Ile Lys Thr Leu Ser
965 970 975
Leu Met Ala Glu Ile Gly Ile His Ser Arg Thr Ser Leu Leu Gln Leu
980 985 990
Thr Gln Lys Gln Glu Thr Phe Arg Glu Met Gln Gln Gln Met Ile Gly
995 1000 1005
Glu Glu Pro Leu Asp His Leu Leu Gly Met Arg Ala Thr Asp Leu Gln
1010 1015 1020
Ile Leu Ser Thr Gln Val Glu Gln Arg Leu Asn Glu Asn Leu Thr Leu
1025 1030 1035 1040
Ser His Arg Asp Glu Lys Pro Ala Phe Ser Leu Asp Val Ser Met Pro
1045 1050 1055
Ser Glu Leu Lys Ser Ser Leu Lys Pro Pro Thr Val Ser Glu Glu Ser
1060 1065 1070
Glu Val Ala Ile Lys Pro Ser Lys Gly Gln Arg Arg Gly Gln Ala Gly
1075 1080 1085
Val Lys Lys His Ser Gln Lys Trp Leu Arg Gly Leu Lys Lys Thr Lys
1090 1095 1100
Glu Arg Asp Ser Lys Gln Met Ser Thr Glu Pro Gly Leu Leu Glu Asp
1105 1110 1115 1120
Glu Ser Gly Thr Glu Ala Ala Pro Ile Glu Met Glu Glu Ala Ser Val
1125 1130 1135
Tyr Ser Gln Trp Ser Ser Ser Thr Ser Val Ile Lys Leu Ser Lys Asp
1140 1145 1150
Val Asp Ser Gln Glu Lys Asp Ile Ser Lys Asp His Ile Ala Leu Thr
1155 1160 1165
Leu Lys Arg Leu Gln Lys Ile Arg Asp Lys Arg Asp Lys Lys Ala Thr

1170 1175 1180
Ala Gln Lys Leu Lys Lys Lys His Lys Lys Lys Gly Lys Glu Ala Lys
1185 1190 1195 1200
Val Ile Asn Glu Glu Thr Thr Pro Pro Val Met Glu Gln Pro Val Thr
 1205 1210 1215
Lys Lys Val Lys Ile Gln Gly Arg Gly Ala Ser Gly Ile Ser Gly Arg
 1220 1225 1230
Arg Ser Thr Ala Gly Asp Gly Ser Ser Trp Arg Asp Asp Leu Cys Arg
 1235 1240 1245
Leu Met Ala Leu Arg Ile Ser Gly Ser Gln Thr Lys Met Ser Glu Asn
 1250 1255 1260
Leu Asn Ala Glu Leu Val Thr Phe Ala Gln Glu Met Leu Val Asp Arg
1265 1270 1275 1280
His Pro Ser Trp Glu Leu Phe Gln Glu Ile Cys Pro Leu Leu Lys Lys
 1285 1290 1295
Glu Ser Lys Val Leu Leu Glu Asp Leu Asp Trp Asp Val Val Pro Pro
 1300 1305 1310
Glu Lys Lys Pro Ile Phe Ile Gln Glu Gly Ala Ile Arg Glu Asp Met
 1315 1320 1325
Ile Gln Gly Val Thr Gln Glu Val Ile Arg His Lys Glu Val Met Pro
 1330 1335 1340
Arg Glu Glu Glu Gln Ala
1345 1350

<210> 3372

<211> 676

<212> PRT

<213> Homo sapiens

<400> 3372

Met Asp Thr Asp Leu Tyr Asp Glu Phe Gly Asn Tyr Ile Gly Pro Glu
 1 5 10 15
 Leu Asp Ser Asp Glu Asp Asp Asp Glu Leu Gly Arg Glu Thr Lys Asp
 20 25 30
 Leu Asp Glu Met Asp Asp Asp Asp Asp Asp Asp Val Gly Asp His
 35 40 45
 Asp Asp Asp His Pro Gly Met Glu Val Val Leu His Glu Asp Lys Lys
 50 55 60
 Tyr Tyr Pro Thr Ala Glu Glu Val Tyr Gly Pro Glu Val Glu Thr Ile
 65 70 75 80
 Val Gln Glu Glu Asp Thr Gln Pro Leu Thr Glu Pro Ile Ile Lys Pro
 85 90 95
 Val Lys Thr Lys Lys Phe Thr Leu Met Glu Gln Thr Leu Pro Val Thr
 100 105 110
 Val Tyr Glu Met Asp Phe Leu Ala Asp Leu Met Asp Asn Ser Glu Leu
 115 120 125
 Ile Arg Asn Val Thr Leu Cys Gly His Leu His His Gly Lys Thr Cys
 130 135 140
 Phe Val Asp Cys Leu Ile Glu Gln Thr His Pro Glu Ile Arg Lys Arg
 145 150 155 160
 Tyr Asp Gln Asp Leu Cys Tyr Thr Asp Ile Leu Phe Thr Glu Gln Glu
 165 170 175
 Arg Gly Val Gly Ile Lys Ser Thr Pro Val Thr Val Val Leu Pro Asp
 180 185 190
 Thr Lys Gly Lys Ser Tyr Leu Phe Asn Ile Met Asp Thr Pro Gly His
 195 200 205
 Val Asn Phe Ser Asp Glu Val Thr Ala Gly Leu Arg Ile Ser Asp Gly

210 215 220
Val Val Leu Phe Ile Asp Ala Ala Glu Gly Val Met Leu Asn Thr Glu
225 230 235 240
Arg Leu Ile Lys His Ala Val Gln Glu Arg Leu Ala Val Thr Val Cys
245 250 255
Ile Asn Lys Ile Asp Arg Leu Ile Leu Glu Leu Lys Leu Pro Pro Thr
260 265 270
Asp Ala Tyr Tyr Lys Leu Arg His Ile Val Asp Glu Val Asn Gly Leu
275 280 285
Ile Ser Met Tyr Ser Thr Asp Glu Asn Leu Ile Leu Ser Pro Leu Leu
290 295 300
Gly Asn Val Cys Phe Ser Ser Ser Gln Tyr Ser Ile Cys Phe Thr Leu
305 310 315 320
Gly Ser Phe Ala Lys Ile Tyr Ala Asp Thr Phe Gly Asp Ile Asn Tyr
325 330 335
Gln Glu Phe Ala Lys Arg Leu Trp Gly Asp Ile Tyr Phe Asn Pro Lys
340 345 350
Thr Arg Lys Phe Thr Lys Lys Ala Pro Thr Ser Ser Ser Gln Arg Ser
355 360 365
Phe Val Glu Phe Ile Leu Glu Pro Leu Tyr Lys Ile Leu Ala Gln Val
370 375 380
Val Gly Asp Val Asp Thr Ser Leu Pro Arg Thr Leu Asp Glu Leu Gly
385 390 395 400
Ile His Leu Thr Lys Glu Glu Leu Lys Leu Asn Ile Arg Pro Leu Leu
405 410 415
Arg Leu Val Cys Lys Lys Phe Phe Gly Glu Phe Thr Gly Phe Val Asp
420 425 430
Met Cys Val Gln His Ile Pro Ser Pro Lys Val Gly Ala Lys Pro Lys
435 440 445

Ile Glu His Thr Tyr Thr Gly Gly Val Asp Ser Asp Leu Gly Glu Ala
 450 455 460
 Met Ser Asp Cys Asp Pro Asp Gly Pro Leu Met Cys His Thr Thr Lys
 465 470 475 480
 Met Tyr Ser Thr Asp Asp Gly Val Gln Phe His Ala Phe Gly Arg Val
 485 490 495
 Leu Ser Gly Thr Ile His Ala Gly Gln Pro Val Lys Val Leu Gly Glu
 500 505 510
 Asn Tyr Thr Leu Glu Asp Glu Glu Asp Ser Gln Ile Cys Thr Val Gly
 515 520 525
 Arg Leu Trp Ile Ser Val Ala Arg Tyr His Ile Glu Val Asn Arg Val
 530 535 540
 Pro Ala Gly Asn Trp Val Leu Ile Glu Gly Val Asp Gln Pro Ile Val
 545 550 555 560
 Lys Thr Ala Thr Ile Thr Glu Pro Arg Gly Asn Glu Glu Ala Gln Ile
 565 570 575
 Phe Arg Pro Leu Lys Phe Asn Thr Thr Ser Val Ile Lys Ile Ala Val
 580 585 590
 Glu Pro Val Asn Pro Ser Glu Leu Pro Lys Met Leu Asp Gly Leu Arg
 595 600 605
 Lys Val Asn Lys Ser Tyr Pro Ser Leu Thr Thr Lys Val Glu Glu Ser
 610 615 620
 Gly Glu His Val Ile Leu Gly Thr Gly Glu Leu Tyr Leu Asp Cys Val
 625 630 635 640
 Met His Asp Leu Arg Lys Met Tyr Ser Glu Ile Asp Ile Lys Val Ala
 645 650 655
 Asp Pro Val Val Thr Phe Cys Glu Thr Val Val Glu Thr Ser Ser Leu
 660 665 670
 Lys Val Leu Cys

675

<210> 3373

<211> 283

<212> PRT

<213> Homo sapiens

<400> 3373

Met Ser Pro Val Thr Val Thr Val Gln Lys Gly Gln Arg Leu Leu Leu

1 5 10 15

Pro Ala Arg Pro Gln Pro His Ser Arg Arg Ala Pro Pro Gln Gln Ser

20 25 30

Ser Ser Pro Gly Gln Gly Val Glu Gly Asp Gly Gly Leu Arg Ile Gly

35 40 45

Gly Pro Val Leu Val Pro Ser Pro Gly Cys Ala Gly Leu Asp Thr Ser

50 55 60

Val Arg Glu Gly Cys Gly Trp Trp Gly Arg Pro Gly Gly Leu Ala Asn

65 70 75 80

Gly Ser Val Phe Pro Arg Ala Pro Ser Val Gly Ala Ala Ala Thr Ser

85 90 95

Arg Pro Cys Ala Leu Val Leu Thr Gly Leu Asp Val Leu Arg Gly Leu

100 105 110

Gly Val His Ser Ser Arg Pro Phe Leu His Arg Arg Gly Phe Ser Asp

115 120 125

Leu Glu Gly Gln Ala Ala Ala Ala Pro Lys Leu Arg Ala Pro Ser His

130 135 140

His Ala Gln Leu Gly Pro Val Trp Ala Ala Ala Pro Ser His Arg Val

145 150 155 160

Val Gln Ala Trp Thr Cys Leu Pro Ser Ala Ala Gly Ala Pro Ala Leu
 165 170 175
 Ala Ser Ala Leu Gly Ser Ala Pro Leu Pro Thr His Pro His Leu Pro
 180 185 190
 Ala Pro Ile Pro Ser Ser Gln Leu Ala Leu Pro Phe Leu Gly Leu Ser
 195 200 205
 Pro Ala Leu Gly Ala Ala Ser Ala Arg Asp Pro Pro Pro Ala Thr Ser
 210 215 220
 Arg Lys Ala Ala Ala Trp Thr Ser Ser Ser Ala Cys Leu Cys Ala Pro
 225 230 235 240
 Trp Gly Leu Arg Arg Gly Trp Ser Cys Val Ser Ser Arg Gly Gln Asp
 245 250 255
 Lys Gly Gly Leu Pro Leu Ala Ala Leu Val Leu Ser Cys Leu Asp Gln
 260 265 270
 Lys Thr Ile Gln Thr Val Ser Leu Phe Leu Ile
 275 280

<210> 3374

<211> 958

<212> PRT

<213> Homo sapiens

<400> 3374

Met Gln Val Ser Ala Glu Met Pro Leu Ile Leu Thr Asp His Pro Gly
 1 5 10 15
 Arg Thr Gly Arg Pro Thr Leu Pro Gly Lys Val Thr Glu Glu Ile Val
 20 25 30
 Ser Ser Glu His Asp Glu Gly Leu Ser Phe Ser Gly Lys Val Gln Cys

35	40	45
Tyr Gly Arg Glu Leu Asn Gln Pro Ala Ser Ala Ala Lys Cys Thr Gly		
50	55	60
Asp Phe Ser Pro Ser Pro Glu Lys Leu Val Lys Ser Gly Asn Pro Leu		
65	70	75
Gln Pro Val Ser Ile Glu Asn Arg Asn Leu Asp Leu Lys His Leu Val		
85	90	95
Leu Glu Ser Ser Glu Pro Pro Phe Gly Pro Arg Asn Val Ile Glu Asn		
100	105	110
Lys Ser Leu Ser Asp Thr Leu Val Ser Thr Thr Ala Pro Ser Gly Ile		
115	120	125
Val Asn Val Ser Val Lys Gln Gln Thr Ser Pro Lys Ser Ser Gln Asn		
130	135	140
His Leu Phe Pro Gly Asp Leu Lys Thr Asp Glu Gly Ile Tyr Leu Gln		
145	150	155
Val Lys Ser Leu Thr Ala Ala Ser Val Asp Gly Ala Tyr Ser Thr Gln		
165	170	175
Gly Cys Met Cys Ser Val Val Pro Thr Leu Cys Ser Ser Ser Asp Asn		
180	185	190
Ala Thr Leu Thr His Tyr Val Arg Pro Ile Asn Ala Glu Pro Ala Phe		
195	200	205
Gln Ala Gln Glu Ile Pro Ala Gly Arg Met Ala Ser Leu Leu Lys Asn		
210	215	220
Gly Glu Pro Glu Ala Glu Leu His Lys Glu Thr Thr Gly Pro Gly Thr		
225	230	235
Ala Gly Pro Gln Ser Asn Thr Thr Ser Ser Leu Lys Gly Glu Arg Lys		
245	250	255
Ala Ile His Thr Leu Gln Asp Val Ser Thr Cys Glu Thr Lys Glu Leu		
260	265	270

Leu Asn Val Gly Val Ser Ser Leu Cys Ala Gly Pro Tyr Gln Asn Thr
 275 280 285
 Ala Asp Thr Lys Glu Asn Leu Ser Lys Glu Pro Leu Ala Ser Phe Val
 290 295 300
 Ser Glu Ser Phe Asp Thr Ser Val Cys Gly Ile Ala Thr Glu His Val
 305 310 315 320
 Glu Ile Glu Asn Ser Gly Glu Gly Leu Arg Ala Glu Ala Gly Ser Glu
 325 330 335
 Thr Leu Gly Arg Asp Gly Glu Val Gly Val Asn Ser Asp Met His Tyr
 340 345 350
 Glu Leu Ser Gly Asp Ser Asp Leu Asp Leu Leu Gly Asp Cys Arg Asn
 355 360 365
 Pro Arg Leu Asp Leu Glu Asp Ser Tyr Thr Leu Arg Gly Ser Tyr Thr
 370 375 380
 Arg Lys Lys Asp Val Pro Thr Asp Gly Tyr Glu Ser Ser Leu Asn Phe
 385 390 395 400
 His Asn Asn Asn Gln Glu Asp Trp Gly Cys Ser Ser Trp Val Pro Gly
 405 410 415
 Met Glu Thr Ser Leu Pro Pro Gly His Trp Thr Ala Ala Val Lys Lys
 420 425 430
 Glu Glu Lys Cys Val Pro Pro Tyr Val Gln Ile Arg Asp Leu His Gly
 435 440 445
 Ile Leu Arg Thr Tyr Ala Asn Phe Ser Ile Thr Lys Glu Leu Lys Asp
 450 455 460
 Thr Met Arg Thr Ser His Gly Leu Arg Arg His Pro Ser Phe Ser Ala
 465 470 475 480
 Asn Cys Gly Leu Pro Ser Ser Trp Thr Ser Thr Trp Gln Val Ala Asp
 485 490 495
 Asp Leu Thr Gln Asn Thr Leu Asp Leu Glu Tyr Leu Arg Phe Ala His

500 505 510
Lys Leu Lys Gln Thr Ile Lys Asn Gly Asp Ser Gln His Ser Ala Ser
515 520 525
Ser Ala Asn Val Phe Pro Lys Glu Ser Pro Thr Gln Ile Ser Ile Gly
530 535 540
Ala Phe Pro Ser Thr Lys Ile Ser Glu Ala Pro Phe Leu His Pro Ala
545 550 555 560
Pro Arg Ser Arg Ser Pro Leu Leu Val Thr Val Val Glu Ser Asp Pro
565 570 575
Arg Pro Gln Gly Gln Pro Arg Arg Gly Tyr Thr Ala Ser Ser Leu Asp
580 585 590
Ser Ser Ser Ser Trp Arg Glu Arg Cys Ser His Asn Arg Asp Leu Arg
595 600 605
Asn Ser Gln Arg Asn His Thr Val Ser Phe His Leu Asn Lys Leu Lys
610 615 620
Tyr Asn Ser Thr Val Lys Glu Ser Arg Asn Asp Ile Ser Leu Ile Leu
625 630 635 640
Asn Glu Tyr Ala Glu Phe Asn Lys Val Met Lys Asn Ser Asn Gln Phe
645 650 655
Ile Phe Gln Asp Lys Glu Leu Asn Asp Val Ser Gly Glu Ala Thr Ala
660 665 670
Gln Glu Met Tyr Leu Pro Phe Pro Gly Arg Ser Ala Ser Tyr Glu Asp
675 680 685
Ile Ile Ile Asp Val Cys Thr Asn Leu His Val Lys Leu Arg Ser Val
690 695 700
Val Lys Glu Ala Cys Lys Ser Thr Phe Leu Phe Tyr Leu Val Glu Thr
705 710 715 720
Glu Asp Lys Ser Phe Phe Val Arg Thr Lys Asn Leu Leu Arg Lys Gly
725 730 735

Gly His Thr Glu Ile Glu Pro Gln His Phe Cys Gln Ala Phe His Arg
740 745 750
Glu Asn Asp Thr Leu Ile Ile Ile Ile Arg Asn Glu Asp Ile Ser Ser
755 760 765
His Leu His Gln Ile Pro Ser Leu Leu Lys Leu Lys His Phe Pro Ser
770 775 780
Val Ile Phe Ala Gly Val Asp Ser Pro Gly Asp Val Leu Asp His Thr
785 790 795 800
Tyr Gln Glu Leu Phe Arg Ala Gly Gly Phe Val Ile Ser Asp Asp Lys
805 810 815
Ile Leu Glu Ala Val Thr Leu Val Gln Leu Lys Glu Ile Ile Lys Ile
820 825 830
Leu Glu Lys Leu Asn Gly Asn Gly Arg Trp Lys Trp Leu Leu His Tyr
835 840 845
Arg Glu Asn Lys Lys Leu Lys Glu Asp Glu Arg Val Asp Ser Thr Ala
850 855 860
His Lys Lys Asn Ile Met Leu Lys Ser Phe Gln Ser Ala Asn Ile Ile
865 870 875 880
Glu Leu Leu His Tyr His Gln Cys Asp Ser Arg Ser Ser Thr Lys Ala
885 890 895
Glu Ile Leu Lys Cys Leu Leu Asn Leu Gln Ile Gln His Ile Asp Ala
900 905 910
Arg Phe Ala Val Leu Leu Thr Asp Lys Pro Thr Ile Pro Arg Glu Val
915 920 925
Phe Glu Asn Ser Gly Ile Leu Val Thr Asp Val Asn Asn Phe Ile Glu
930 935 940
Asn Ile Glu Lys Ile Ala Ala Pro Phe Arg Ser Ser Tyr Trp
945 950 955

<210> 3375

<211> 402

<212> PRT

<213> Homo sapiens

<400> 3375

Met Ser Phe Glu Glu Leu Cys Tyr Lys Asn Pro Lys Met Ala Ile Gln

1

5

10

15

Lys Ile Ser Asp Asp Tyr Lys Ile Tyr Cys Glu Lys Ala Pro Lys Ile

20

25

30

Asp Phe Lys Met Glu Ile Ile Lys Glu Thr Lys Thr Val Ser Arg Ser

35

40

45

Asn Arg Lys Met Ser Leu Leu Lys Arg Thr Leu Val Arg Lys Pro Ser

50

55

60

Met Arg Pro Arg Asn Leu Thr Glu Val Leu Leu Asn Thr Gln His Leu

65

70

75

80

Glu Phe Phe Arg Glu Phe Leu Lys Glu Arg Lys Ala Lys Ile Pro Leu

85

90

95

Gln Phe Leu Thr Ala Val Gln Lys Ile Ser Ile Glu Thr Asn Glu Lys

100

105

110

Ile Cys Lys Ser Leu Ile Glu Asn Val Ile Lys Thr Phe Phe Gln Gly

115

120

125

Gln Leu Ser Pro Glu Glu Met Leu Gln Cys Asp Ala Pro Ile Ile Lys

130

135

140

Glu Ile Ala Ser Met Arg His Val Thr Thr Ser Thr Leu Leu Thr Leu

145

150

155

160

Gln Gly His Val Met Lys Ser Ile Glu Glu Lys Trp Phe Lys Asp Tyr

165

170

175

Gln Asp Leu Phe Pro Pro His His Gln Glu Val Glu Val Gln Ser Glu
180 185 190
Val Gln Ile Ser Ser Arg Lys Pro Ser Lys Ile Val Ser Thr Tyr Leu
195 200 205
Gln Glu Ser Gln Lys Lys Gly Trp Met Arg Met Ile Ser Phe Ile Arg
210 215 220
Ser Phe Cys Lys Tyr Arg Arg Phe Met Leu Asn Pro Ser Lys Arg Gln
225 230 235 240
Glu Phe Glu Asp Tyr Leu His Gln Glu Met Gln Asn Ser Lys Glu Asn
245 250 255
Phe Thr Thr Ala His Asn Thr Ser Gly Arg Ser Ala Pro Pro Ser Thr
260 265 270
Asn Val Arg Ser Ala Asp Gln Glu Asn Gly Glu Ile Thr Leu Val Lys
275 280 285
Arg Arg Ile Phe Gly His Arg Ile Ile Thr Val Asn Phe Ala Ile Asn
290 295 300
Asp Leu Tyr Phe Phe Ser Glu Met Glu Lys Phe Asn Asp Leu Val Ser
305 310 315 320
Ser Ala His Met Leu Gln Val Asn Arg Ala Tyr Asn Glu Asn Asp Val
325 330 335
Ile Leu Met Arg Ser Lys Met Asn Ile Ile Gln Lys Leu Phe Leu Asn
340 345 350
Ser Asp Ile Pro Pro Lys Leu Arg Val Asn Val Pro Glu Phe Gln Lys
355 360 365
Asp Ala Ile Leu Ala Ala Ile Thr Glu Gly Tyr Leu Asp Arg Ser Val
370 375 380
Phe His Gly Ala Ile Met Ser Val Phe Pro Val Val Met Tyr Phe Trp
385 390 395 400
Lys Arg

<210> 3376

<211> 126

<212> PRT

<213> Homo sapiens

<400> 3376

Met	Ile	Ser	Val	Ser	Thr	Pro	Asp	Cys	Arg	Gln	Ser	Arg	Val	Glu	Gly
1				5						10				15	
Pro	Arg	Arg	Val	Gly	Thr	Gly	Gly	Gln	Asp	Pro	Arg	Thr	Thr	His	Ser
			20					25					30		
Pro	Ala	Gly	Trp	Lys	Gln	Met	Ala	Pro	Pro	His	Pro	Cys	Pro	Pro	Ser
		35					40					45			
Trp	Gln	Ser	Ala	Pro	Arg	Thr	Gly	Gln	Thr	Ser	Ser	Arg	Gly	Trp	Pro
	50					55					60				
Gly	Cys	Gly	His	Pro	Leu	Val	Gly	Ala	Ser	Asn	Gly	Ala	Arg	Arg	Gly
65					70					75				80	
Ala	Trp	His	Ala	Lys	Ser	Trp	His	Arg	Val	Arg	Ala	Val	Thr	His	Leu
				85						90				95	
Ser	His	Ala	Trp	Arg	Pro	Leu	His	Ala	Thr	Arg	Leu	Pro	Cys	Pro	Ala
		100						105					110		
Val	Glu	Leu	Val	Thr	Met	Arg	Gln	Gly	Arg	Ala	Gly	Met	Ala		
		115						120					125		

<210> 3377

<211> 614

<212> PRT

<213> Homo sapiens

<400> 3377

Met	Glu	Asn	Asp	Pro	Gln	Glu	Ala	Glu	Ser	Glu	Met	Ala	Leu	Asp	Ala
1				5					10					15	
Glu	Phe	Leu	Asp	Val	Tyr	Lys	Asn	Cys	Asn	Gly	Val	Val	Met	Met	Phe
				20					25					30	
Asp	Ile	Thr	Lys	Gln	Trp	Thr	Phe	Asn	Tyr	Ile	Leu	Arg	Glu	Leu	Pro
				35				40						45	
Lys	Val	Pro	Thr	His	Val	Pro	Val	Cys	Val	Leu	Gly	Asn	Tyr	Arg	Asp
				50				55						60	
Met	Gly	Glu	His	Arg	Val	Ile	Leu	Pro	Asp	Asp	Val	Arg	Asp	Phe	Ile
				65				70						75	
Asp	Asn	Leu	Asp	Arg	Pro	Pro	Gly	Ser	Ser	Tyr	Phe	Arg	Tyr	Ala	Glu
				85					90					95	
Ser	Ser	Met	Lys	Asn	Ser	Phe	Gly	Leu	Lys	Tyr	Leu	His	Lys	Phe	Phe
				100					105					110	
Asn	Ile	Pro	Phe	Leu	Gln	Leu	Gln	Arg	Glu	Thr	Leu	Leu	Arg	Gln	Leu
				115				120						125	
Glu	Thr	Asn	Gln	Leu	Asp	Met	Asp	Ala	Thr	Leu	Glu	Glu	Leu	Ser	Val
				130				135						140	
Gln	Gln	Glu	Thr	Glu	Asp	Gln	Asn	Tyr	Gly	Ile	Phe	Leu	Glu	Met	Met
				145				150						155	
Glu	Ala	Arg	Ser	Arg	Gly	His	Ala	Ser	Pro	Leu	Ala	Ala	Asn	Gly	Gln
				165					170					175	
Ser	Pro	Ser	Pro	Gly	Ser	Gln	Ser	Pro	Val	Val	Pro	Ala	Gly	Ala	Val
				180					185					190	
Ser	Thr	Gly	Ser	Ser	Ser	Pro	Gly	Thr	Pro	Gln	Pro	Ala	Pro	Gln	Leu

195	200	205
Pro Leu Asn Ala Ala Pro Pro Ser Ser Val Pro Pro Val Pro Pro Ser		
210	215	220
Glu Ala Leu Pro Pro Pro Ala Cys Pro Ser Ala Pro Ala Pro Arg Arg		
225	230	235
Ser Ile Ile Ser Arg Leu Phe Gly Thr Ser Pro Ala Thr Glu Ala Ala		
245	250	255
Pro Pro Pro Pro Glu Pro Val Pro Ala Ala Gln Gly Pro Ala Thr Val		
260	265	270
Gln Ser Val Glu Asp Phe Val Pro Asp Asp Arg Leu Asp Arg Ser Phe		
275	280	285
Leu Glu Asp Thr Thr Pro Ala Arg Asp Glu Lys Lys Val Gly Ala Lys		
290	295	300
Ala Ala Gln Gln Asp Ser Asp Ser Asp Gly Glu Ala Leu Gly Gly Asn		
305	310	315
Pro Met Val Ala Gly Phe Gln Asp Asp Val Asp Leu Glu Asp Gln Pro		
325	330	335
Arg Gly Ser Pro Pro Leu Pro Ala Gly Pro Val Pro Ser Gln Asp Ile		
340	345	350
Thr Leu Ser Ser Glu Glu Glu Ala Glu Val Ala Ala Pro Thr Lys Ser		
355	360	365
Pro Ala Pro Ala Pro Gln Gln Cys Ser Glu Pro Glu Thr Lys Trp Ser		
370	375	380
Ser Ile Pro Ala Ser Lys Pro Arg Arg Gly Thr Ala Pro Thr Arg Thr		
385	390	395
Ala Ala Pro Pro Trp Pro Gly Gly Val Ser Val Arg Thr Gly Pro Glu		
405	410	415
Lys Arg Ser Ser Thr Arg Pro Pro Ala Glu Met Glu Pro Gly Lys Gly		
420	425	430

Glu Gln Ala Ser Ser Ser Glu Ser Asp Pro Glu Gly Pro Ile Ala Ala

435

440

445

Gln Met Leu Ser Phe Val Met Asp Asp Pro Asp Phe Glu Ser Glu Gly

450

455

460

Ser Asp Thr Gln Arg Arg Ala Asp Asp Phe Pro Val Arg Asp Asp Pro

465

470

475

480

Ser Asp Val Thr Asp Glu Asp Glu Gly Pro Ala Glu Pro Pro Pro Pro

485

490

495

Pro Lys Leu Pro Leu Pro Ala Phe Arg Leu Lys Asn Asp Ser Asp Leu

500

505

510

Phe Gly Leu Gly Leu Glu Glu Ala Gly Pro Lys Glu Ser Ser Glu Glu

515

520

525

Gly Lys Glu Gly Lys Thr Pro Ser Lys Glu Lys Lys Lys Lys Lys Lys

530

535

540

Lys Gly Lys Glu Glu Glu Glu Lys Ala Ala Lys Lys Lys Ser Lys His

545

550

555

560

Lys Lys Ser Lys Asp Lys Glu Glu Gly Lys Glu Glu Arg Arg Arg Arg

565

570

575

Gln Gln Arg Pro Pro Arg Ser Arg Glu Arg Thr Ala Ala Asp Glu Leu

580

585

590

Glu Ala Phe Leu Gly Gly Gly Ala Pro Gly Gly Arg His Pro Gly Gly

595

600

605

Gly Asp Tyr Glu Glu Leu

610

<210> 3378

<211> 799

<212> PRT

<213> Homo sapiens

<400> 3378

Met Ser Glu Arg Thr Gln Glu Gln Asp Phe Val Ile Ile Thr Val Asp
1 5 10 15
Asp Ser Asp Asp Asn Asn Asp Cys Ser Ile Glu Met Val Glu Val Ser
20 25 30
Glu Thr Ala Asp Asn Ser Thr Asn Asp Ile Ala Asp Asp Ser Thr Tyr
35 40 45
Val Thr Ala Asp Asn Pro Thr Asp Asp Thr Ala Thr Gln Pro Asn Phe
50 55 60
Pro Gly Gly Asn Asp Gly His His Arg Pro Leu Gln Met Ser Tyr Gly
65 70 75 80
Ser Gly Ser Val Thr Gln Ala Gly Val Gln Trp His Asp His Ser Ser
85 90 95
Leu Gln Pro Gln Pro Leu Gly Leu Lys Gln Phe Phe His Leu Ser Leu
100 105 110
Pro Ser Ser Trp Asp Asp Arg Arg Thr Pro Pro Cys Pro Val Ala His
115 120 125
Gly Asp Gln Ile Val Ser Gln Ile Asn His Pro Val His Leu Arg Arg
130 135 140
Tyr Ser Tyr Asn Ser Glu Glu Val Asp Leu Pro Lys Arg Gly Arg Phe
145 150 155 160
Tyr Thr Pro Glu Val Gln Ser Ser Ile Ser Pro Pro Ala Glu Arg Gln
165 170 175
Glu Thr His Ala Trp Ala Ser Pro Ala Val Thr Ser Leu Glu Ser Ala
180 185 190
Ala Cys His Glu Leu Gln Glu Ala Asp Leu Ser Glu Ser Leu Ser Tyr
195 200 205

Pro Arg Ile Val Ser Ser Ser Ser Leu Gln Gln Tyr Val Ala Gln Gly
210 215 220
Gly Ser Phe Pro Cys Phe Gly Met Ser Trp Asn Phe Ile Ser Gly Gly
225 230 235 240
Ala Glu Ser Thr Asn Ala Val Ile Ser Phe Ala Asn Ala Thr Thr Ala
245 250 255
Val Pro Met Ala Val Leu Ser Arg Arg Glu Ser Ser Leu Ala Asn Asn
260 265 270
Pro Gly Val Val Asn Tyr Ser Ala Leu Pro Glu Asn Glu Asn Val Gly
275 280 285
Pro Gly Arg Ala Leu Ser Ser Phe Cys Phe His Pro Asn Leu Glu Met
290 295 300
Pro Glu Arg Pro Ala Asn Ser Ser Lys Asn Ser Thr Glu Thr Ala Asn
305 310 315 320
Tyr Pro Thr Leu Met Gly Asn Tyr Asn Gly Gln Asn Thr Ala Ser Leu
325 330 335
Ser Val Phe Ile Pro Pro Tyr Phe Ala Glu Lys Ile Ile Leu Thr Glu
340 345 350
Met Pro Gly Thr Thr Glu Thr Asn Val Glu Asn Asn Ser Gln Thr Val
355 360 365
Tyr Tyr Pro Ala Leu Ser Gly Asn Thr Ser Ala Pro Tyr Pro Ala Ser
370 375 380
Ser Tyr Leu Pro Ile Thr Ser Asn Phe Glu Ser Gly Pro Gln Met Ser
385 390 395 400
Tyr Gly Thr Met Ser Tyr Ser Thr Glu Met Lys Asn Asn Cys Asp Gln
405 410 415
Asp Asp Ala Ser Ala Ser Ala Cys Leu Thr Pro Asp Phe Ala Leu Leu
420 425 430
Pro Leu Asn Ile Leu Val Lys Val Asp Thr Asn Thr Glu Asn Ser Val

435 440 445
Asn Thr Met Asn Arg Ser Thr Leu Leu Asp Ser Asp Ser Gly Gln Asp
450 455 460
Ser Ser Ser Ser Ser Val Cys Ile Pro Pro Lys Tyr Gly Tyr Leu Gly
465 470 475 480
Asp Pro Lys Arg Asn Val Arg Val Leu Lys Ile His Leu Leu Ala Val
485 490 495
Gln Asn Met Ala Lys Pro Lys Gln Ala Ala Cys Tyr Leu Val Arg Ile
500 505 510
Leu Phe Ser Lys Glu Ile Leu Ile Ser Ser Ser Val Asp Ile His Leu
515 520 525
Lys Asp Ser Gln Ser Leu Asp Pro Asn Lys Met Ala Ala Leu Arg Glu
530 535 540
Tyr Leu Ala Thr Thr Phe Pro Thr Cys Asp Leu His Glu His Gly Lys
545 550 555 560
Asp Trp Gln Asp Cys Ile Ser Gly Ile Asn Ser Met Ile Tyr Cys Leu
565 570 575
Cys Ser Glu Gly Lys Ser Thr Pro Lys Thr Val Arg Lys Asn Lys Lys
580 585 590
Arg Thr Asn Arg Val Ala Ser Ala Ser Ala Asp Arg Asn Asp Gln Arg
595 600 605
Gly Arg Asp Gly Gly Glu Gly Cys Ser Trp Met Phe Gln Pro Met Asn
610 615 620
Asn Ser Lys Met Arg Glu Lys Arg Asn Leu Gln Pro Asn Ser Asn Ala
625 630 635 640
Ile Pro Glu Gly Met Arg Glu Pro Ser Thr Asp Asn Pro Glu Glu Pro
645 650 655
Gly Glu Ala Trp Ser Tyr Phe Gly Arg Pro Trp Arg Asn Ile Arg Met
660 665 670

Pro Cys Ser Val Leu Thr Leu Ala Lys Thr Lys Ser Cys Ala Ser Leu
675 680 685
Ser Ala Arg Tyr Leu Ile Gln Lys Leu Phe Thr Lys Asp Val Leu Val
690 695 700
Gln Ser Asn Val Tyr Gly Asn Leu Lys His Gly Leu Cys Ala Leu Asp
705 710 715 720
Pro Asn Lys Ile Ser Ala Leu Arg Glu Phe Leu Gln Glu Asn Tyr Pro
725 730 735
Ile Cys Asp Leu Ser Glu Asn Gly Arg Asp Trp Lys Ser Cys Val Thr
740 745 750
Ser Ile Asn Ser Gly Ile Arg Ser Leu Arg His Asp Val Arg Arg Ala
755 760 765
Glu Ala Arg Ser Gln Ser Leu Pro Ala Val Thr Pro Pro Glu Leu Glu
770 775 780
Gln Glu Ser Lys Pro Gly Asp Pro Asp Ala Thr Asp Pro Ser Thr
785 790 795

<210> 3379

<211> 216

<212> PRT

<213> Homo sapiens

<400> 3379

Met Gly Arg Gly Ala Pro Pro Leu Thr Pro Arg Leu Glu Ala Ala Gln
1 5 10 15
Pro Glu Arg Gln Gln Gln Asp Arg Gly Pro Gly Ser Gly Ala His Val
20 25 30
Ala Phe Arg Gly Arg Pro Ser Arg Gly Arg Gly His Gly Ala Ala Arg

35	40	45
Ala Arg Ser Ser Leu Gln Ala Pro Arg Val Ser Gly Ala Arg Gly Pro		
50	55	60
His Gly Asp Arg Arg Cys Phe Ser Ala Ala Pro Gly Leu Cys Pro Pro		
65	70	75
Thr Pro Arg Ala Pro Arg Pro Leu Pro Arg Gly Pro Ser Arg Ala Arg		
85	90	95
Arg Gly Glu Ala Glu Gly Pro Arg Ala Ile Ser Ala Ala Ser Arg Pro		
100	105	110
Thr Gly Ser Ser Ser Tyr Arg Gly Pro Ile Arg Ser Cys Ala Arg Ala		
115	120	125
Ser Pro Cys Cys Ala Arg Gln Ala Ser Pro Ala Leu Ala Pro Gly Arg		
130	135	140
Cys Pro Thr Pro Arg Gln Gly Arg Glu Ser Gly Gly Arg Ser Ala Ala		
145	150	155
Leu Arg Ala Gly Gly Arg Gly Ser Gln Thr Glu Cys Trp Pro Pro Glu		
165	170	175
Glu Ser Asn Pro Gly Phe Val Gln Ala Ile Thr Gly Trp Ala Trp Arg		
180	185	190
Gly Gly Ala Ser Gln Arg Ala Gly Val Trp Gly Ala Pro Gly Ala Ser		
195	200	205
Gly Gln Gly Arg Asp Val Ala Gly		
210	215	

<210> 3380

<211> 103

<212> PRT

<213> Homo sapiens

<400> 3380

Met Arg Val Leu Gln Pro Glu Arg Pro Ser His Thr Ala Ser Gln His
 1 5 10 15
 Asn Gln Ser Val Lys Cys Gly His Ala Pro Leu Glu His Lys Ala Thr
 20 25 30
 Val Cys His Leu Leu Cys Pro Cys Leu His Leu Gly Arg Arg Thr Ser
 35 40 45
 Leu Ile Cys Gly Leu Cys Pro His Gly Ser Tyr Asn Tyr Gln Thr Asn
 50 55 60
 Thr Thr Thr Glu Arg Leu Glu Gly Ser Ala Ser Ala Ser His Ile Tyr
 65 70 75 80
 Ala Ser Val Thr Arg Val Leu Ile Asn Leu Asn Ala Gln Ile Ile Gly
 85 90 95
 Ala Phe Leu Ala His Ser Leu
 100

<210> 3381

<211> 384

<212> PRT

<213> Homo sapiens

<400> 3381

Met Gly His Pro His Gln Glu Ser Ser Leu Phe Phe Thr Ala Ser Gly
 1 5 10 15
 Asn Leu Pro Leu Leu Leu Ser Leu Leu Ser Leu Met Gln Leu Arg Asn
 20 25 30
 Val Ser Glu Gln Glu Leu Asp Ser Val Ala Met Lys Leu Leu His Gln

35	40	45
Val Ser Lys Leu Cys Gly Lys Cys Ser Pro Thr Asp Val Asp Ile Leu		
50	55	60
Gln Pro Ser Phe Asn Phe Leu Tyr Trp Ser Leu His Gln Thr Thr Pro		
65	70	75
Ser Ser Gln Lys Arg Ala Ala Ala Val Leu Leu Ser Ser Thr Gly Leu		
85	90	95
Met Glu Leu Leu Glu Lys Met Leu Ala Leu Thr Leu Ala Lys Ala Asp		
100	105	110
Ser Pro Arg Thr Ala Leu Leu Cys Ser Ala Trp Leu Leu Thr Ala Ser		
115	120	125
Phe Ser Ala Gln Gln His Lys Gly Ser Leu Gln Val His Gln Thr Leu		
130	135	140
Ser Val Glu Met Asp Gln Val Leu Lys Ala Leu Ser Phe Pro Lys Lys		
145	150	155
Lys Ala Ala Leu Leu Ser Ala Ala Ile Leu Cys Phe Leu Arg Thr Ala		
165	170	175
Leu Arg Gln Ser Phe Ser Ser Ala Leu Val Ala Leu Val Pro Ser Gly		
180	185	190
Ala Gln Pro Leu Pro Ala Thr Lys Asp Thr Val Leu Ala Pro Leu Arg		
195	200	205
Met Ser Gln Val Arg Ser Leu Val Ile Gly Leu Gln Asn Leu Leu Val		
210	215	220
Gln Lys Asp Pro Leu Leu Ser Gln Thr Cys Val Gly Cys Leu Glu Ala		
225	230	235
Leu Leu Asp Tyr Leu Asp Ala Arg Ser Pro Asp Ile Ala Leu His Val		
245	250	255
Ala Ser Gln Pro Trp Asn Arg Phe Leu Leu Phe Thr Leu Leu Asp Ala		
260	265	270

Gly Glu Asn Ser Phe Leu Arg Pro Glu Ile Leu Arg Leu Met Thr Leu
 275 280 285
 Phe Met Arg Tyr Arg Ser Ser Ser Val Leu Ser His Glu Glu Val Gly
 290 295 300
 Asp Val Leu Gln Gly Val Ala Leu Ala Asp Leu Ser Thr Leu Ser Asn
 305 310 315 320
 Thr Thr Leu Gln Ala Leu His Gly Phe Phe Gln Gln Leu Gln Ser Met
 325 330 335
 Gly His Leu Ala Asp His Gly Met Ala Gln Thr Leu Gln Ala Ser Leu
 340 345 350
 Glu Gly Leu Pro Pro Ser Thr Ser Ser Gly Gln Pro Pro Leu Gln Asp
 355 360 365
 Met Leu Cys Leu Gly Gly Val Ala Val Ser Leu Ser His Ile Arg Asn
 370 375 380

<210> 3382

<211> 822

<212> PRT

<213> Homo sapiens

<400> 3382

Met Glu Leu Glu Leu Asn Glu Lys Ile Asn Glu Glu Ile Thr His Ile
 1 5 10 15
 Gln Glu Glu Lys Gln Asp Ile Ile Ile Ser Phe Gln His Met Gln Gln
 20 25 30
 Leu Leu Arg Gln Gln Ile Gln Ala Asn Thr Glu Met Glu Ala Glu Leu
 35 40 45
 Lys Val Leu Lys Glu Asn Asn Gln Thr Leu Glu Arg Asp Asn Glu Leu

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Glu Thr Glu Lys Ile His Leu Glu Arg Thr Arg Gly Leu Asp Val His
 290 295 300
 His Thr Asp Val Asn Leu Glu Val Glu Asn Asn Lys Thr Ser Phe Asn
 305 310 315 320
 Ser Ile Leu Asn Glu Thr Ala His Asn Thr Tyr His Asn Asn Asn Lys
 325 330 335
 Asp Val Ser Glu Asn Glu Pro Phe Lys Gln Phe Arg Leu Leu Pro Gly
 340 345 350
 Thr Arg Glu His Ala Leu Glu Lys Glu Ile Thr Asn Ser Asp Gln Thr
 355 360 365
 Lys Ala Asp Leu Asp Ser Ser Leu Asp Ile Lys Lys Asn Pro Val Pro
 370 375 380
 Cys Gln Lys Tyr Ser Leu Arg Asn Ser Ser Asn Val Met Leu Asp Asp
 385 390 395 400
 Lys Gln Cys Lys Ile Lys Gln Ile Gln Leu Leu Thr Lys Lys Ser Glu
 405 410 415
 Cys Ser Ile Leu Leu Ser Lys Gln Thr Ser Asp Phe Leu Gln Val Cys
 420 425 430
 Asn Asp Thr Leu Glu Lys Ser Glu Leu Thr Val Pro Cys Asp Ile Val
 435 440 445
 Ile Asp His His Val Ser Tyr Ala Ala Phe Ser Ala Asn Ser Lys Leu
 450 455 460
 Leu Leu Lys Asn Ser Asp Lys Asn Val His Ser Met Ser Met Leu Val
 465 470 475 480
 Lys Pro Asn Ser Ser Pro Gly Gly Lys Thr Met Cys Lys Asn Met Ser
 485 490 495
 Asp Met Gln Asn Ser Gln Phe Asn Asn Cys Leu Gly Tyr Leu Glu Asn
 500 505 510
 Thr Asn Val Asn Ile Ser His Leu His Leu Asn Asn Glu Asn Ser His

515 520 525
Ala Ser Gln Ala Lys Asp Val Lys Thr Ala Val His Met Lys Thr Cys
530 535 540
Thr Glu Thr Glu Phe Ser Asn Lys Lys Asn Gln Ile Asp Glu Asn Gln
545 550 555 560
Val Thr Glu Ala Thr Lys Asn Asp Leu Phe Leu Phe Val Ser Ile Asn
565 570 575
Glu Arg Gln His Thr Leu Leu Asn Asn Thr Glu Lys Thr Glu Ser Leu
580 585 590
Asn Asp Ile Val Ser Gly Lys Met Phe Ser Glu Gly Gln Leu Glu Glu
595 600 605
Ser His Ser Phe His Ile Glu Pro Ser Gly Asp Leu Val Asn Arg Ser
610 615 620
Gly Arg Ser Thr Phe Asp Leu Ser Thr Ser Asp Lys Lys Thr Glu Lys
625 630 635 640
Thr Pro Val Tyr Met Asn Phe Ser Asp Pro Gly Pro Trp Ser Lys Val
645 650 655
Asn His Ile Glu Ser Gln Thr Ala Ser Ser Ser Thr Pro Cys Ile Ser
660 665 670
Leu Leu Leu Lys Glu Arg Pro Leu Asp Pro Ser Glu Asn Lys Lys Ile
675 680 685
Ile Ser Met Ala Leu Cys Lys Asn Ile Gly Val Asp Asp Val Gly Lys
690 695 700
Asp Ile Gly Pro Asp Thr Thr Ser Ile Asn Arg Val Ala Asp Thr Leu
705 710 715 720
Asn Asn Trp Ser Ile His Pro Asp Pro Lys Gly Glu Pro Ser Glu Glu
725 730 735
Lys Asn Ala Met Ala Lys Thr Phe Tyr Asp Ser Ser Phe Pro Thr Glu
740 745 750

His Val Lys Thr Lys Pro Leu Ile Ser Thr Pro Leu Gln Ser His Leu
 755 760 765
 Gln Ala Ile Lys Thr Thr Lys Asn Thr Ser Gly Asp Asp Asp Trp Gln
 770 775 780
 Ser Leu Ile Thr Asn Gln Leu Asn Lys Ser Glu Asn Leu Leu Ser Leu
 785 790 795 800
 Glu Asn Asp Asn Gln Pro Lys Lys Arg Lys Ala Glu Glu Thr Leu Glu
 805 810 815
 Lys Asn Asn Arg Leu Lys
 820

<210> 3383

<211> 632

<212> PRT

<213> Homo sapiens

<400> 3383

Met Thr Pro Pro Val Leu Thr Thr Ala Glu Thr Ser Val Lys Pro Ser
 1 5 10 15
 Val Ser Ala Phe Thr His Ser Pro Pro Glu Asn Thr Thr Gly Ile Ser
 20 25 30
 Ser Thr Ile Ser Phe His Ser Arg Thr Leu Asn Leu Thr Asp Val Ile
 35 40 45
 Glu Glu Leu Ala Gln Ala Ser Thr Gln Thr Leu Lys Ser Thr Ile Ala
 50 55 60
 Ser Glu Thr Thr Leu Ser Ser Lys Ser His Gln Ser Thr Thr Thr Arg
 65 70 75 80
 Lys Ala Ile Ile Arg His Ser Thr Ile Pro Pro Phe Leu Ser Ser Ser

	85	90	95
Ala Thr Leu Met Pro Val Pro Ile Ser Pro Pro Phe Thr Gln Arg Ala			
100	105	110	
Val Thr Asp Asn Val Ala Thr Pro Ile Ser Gly Leu Met Thr Asn Thr			
115	120	125	
Val Val Lys Leu His Glu Ser Ser Arg His Asn Ala Lys Pro Gln Gln			
130	135	140	
Leu Val Ala Glu Val Ala Thr Ser Pro Lys Val His Pro Asn Ala Lys			
145	150	155	160
Phe Thr Ile Gly Thr Thr His Phe Ile Tyr Ser Asn Leu Leu His Ser			
165	170	175	
Thr Pro Met Pro Ala Leu Thr Thr Val Lys Ser Gln Asn Ser Lys Leu			
180	185	190	
Thr Pro Ser Pro Trp Ala Glu Asn Gln Phe Trp His Lys Pro Tyr Ser			
195	200	205	
Glu Ile Ala Glu Lys Gly Lys Lys Pro Glu Val Ser Met Leu Ala Thr			
210	215	220	
Thr Gly Leu Ser Glu Ala Thr Thr Leu Val Ser Asp Trp Asp Gly Gln			
225	230	235	240
Lys Asn Thr Lys Lys Ser Asp Phe Asp Lys Lys Pro Val Gln Glu Ala			
245	250	255	
Thr Thr Ser Lys Leu Leu Pro Phe Asp Ser Leu Ser Arg Tyr Ile Phe			
260	265	270	
Glu Lys Pro Arg Ile Val Gly Gly Lys Ala Ala Ser Phe Thr Ile Pro			
275	280	285	
Ala Asn Ser Asp Ala Phe Leu Pro Cys Glu Ala Val Gly Asn Pro Leu			
290	295	300	
Pro Thr Ile His Trp Thr Arg Val Pro Ser Gly Leu Asp Leu Ser Lys			
305	310	315	320

Arg Lys Gln Asn Ser Arg Val Gln Val Leu Pro Asn Gly Thr Leu Ser
325 330 335
Ile Gln Arg Val Glu Ile Gln Asp Arg Gly Gln Tyr Leu Cys Ser Ala
340 345 350
Ser Asn Leu Phe Gly Thr Asp His Leu His Val Thr Leu Ser Val Val
355 360 365
Ser Tyr Pro Pro Arg Ile Leu Glu Arg Arg Thr Lys Glu Ile Thr Val
370 375 380
His Ser Gly Ser Thr Val Glu Leu Lys Cys Arg Ala Glu Gly Arg Pro
385 390 395 400
Ser Pro Thr Val Thr Trp Ile Leu Ala Asn Gln Thr Val Val Ser Glu
405 410 415
Ser Ser Gln Gly Ser Arg Gln Ala Val Val Thr Val Asp Gly Thr Leu
420 425 430
Val Leu His Asn Leu Ser Ile Tyr Asp Arg Gly Phe Tyr Lys Cys Val
435 440 445
Ala Ser Asn Pro Gly Gly Gln Asp Ser Leu Leu Val Lys Ile Gln Val
450 455 460
Ile Ala Ala Pro Pro Val Ile Leu Glu Gln Arg Arg Gln Val Ile Val
465 470 475 480
Gly Thr Trp Gly Glu Ser Leu Lys Leu Pro Cys Thr Ala Lys Gly Thr
485 490 495
Pro Gln Pro Ser Val Tyr Trp Val Leu Ser Asp Gly Thr Glu Val Lys
500 505 510
Pro Leu Gln Phe Thr Asn Ser Lys Leu Phe Leu Phe Ser Asn Gly Thr
515 520 525
Leu Tyr Ile Arg Asn Leu Ala Ser Ser Asp Arg Gly Thr Tyr Glu Cys
530 535 540
Ile Ala Thr Ser Ser Thr Gly Ser Glu Arg Arg Val Val Met Leu Thr

545 550 555 560
 Met Glu Glu Arg Val Thr Ser Pro Arg Ile Glu Ala Ala Ser Gln Lys
 565 570 575
 Arg Thr Glu Val Asn Phe Gly Asp Lys Leu Leu Leu Asn Cys Ser Ala
 580 585 590
 Thr Gly Glu Pro Lys Pro Gln Ile Met Trp Arg Leu Pro Ser Lys Ala
 595 600 605
 Val Val Asp Gln Gln His Arg Val Ala Ala Gly Ser Thr Ser Thr Leu
 610 615 620
 Met Asp Pro Cys Leu Leu Asp Gln
 625 630

<210> 3384

<211> 107

<212> PRT

<213> Homo sapiens

<400> 3384

Met Asn Val Ala Phe Ile Tyr Cys Lys Ile Lys Asp Gly Asp Gly Gln
 1 5 10 15
 Gly Val Thr Ala Ser Leu Phe Leu Ala Leu Ile Ile Phe Leu Asp Ile
 20 25 30
 Lys Ser His His Leu Phe Pro Thr Lys Lys Glu Arg Gln Asp His Gln
 35 40 45
 Thr Leu Gln Gly Ser Gln Glu Glu Glu Gly Lys Glu Pro Arg Asn Gly
 50 55 60
 Glu Lys Leu Asp Ser Arg Asp Gly Ser Gly Asp Ala Pro Gln Ser Ala
 65 70 75 80

Ala Val Glu Asn Ala Glu Glu Glu Leu Ala Ser Gly Thr Phe Pro Leu
 85 90 95
 Arg Ser Met Ala Gly Gly Met Ser Asn Ile His
 100 105

<210> 3385

<211> 656

<212> PRT

<213> Homo sapiens

<400> 3385

Met Tyr Pro Glu Leu Gln Ile Thr Asn Val Met Glu Ala Asn Gln Arg
 1 5 10 15
 Val Ser Ile Asp Asn Trp Cys Arg Arg Asp Lys Lys Gln Cys Lys Ser
 20 25 30
 Arg Phe Val Thr Pro Phe Lys Cys Leu Val Gly Glu Phe Val Ser Asp
 35 40 45
 Val Leu Leu Val Pro Glu Lys Cys Gln Phe Phe His Lys Glu Arg Met
 50 55 60
 Glu Val Cys Glu Asn His Gln His Trp His Thr Val Val Lys Glu Ala
 65 70 75 80
 Cys Leu Thr Gln Gly Met Thr Leu Tyr Ser Tyr Gly Met Leu Leu Pro
 85 90 95
 Cys Gly Val Asp Gln Phe His Gly Thr Glu Tyr Val Cys Cys Pro Gln
 100 105 110
 Thr Lys Ile Ile Gly Ser Val Ser Lys Glu Glu Glu Glu Glu Asp Glu
 115 120 125
 Glu Glu Glu Glu Asp Glu Glu Glu Asp Tyr Asp Val Tyr Lys Ser Glu

130	135	140
Phe Pro Thr Glu Ala Asp Leu Glu Asp Phe Thr Glu Ala Ala Val Asp		
145	150	155
Glu Asp Asp Glu Asp Glu Glu Glu Gly Glu Glu Val Val Glu Asp Arg		
165	170	175
Asp Tyr Tyr Tyr Asp Thr Phe Lys Gly Asp Asp Tyr Asn Glu Glu Asn		
180	185	190
Pro Thr Glu Pro Gly Ser Asp Gly Thr Met Ser Asp Lys Glu Ile Thr		
195	200	205
His Asp Val Lys Ala Val Cys Ser Gln Glu Ala Met Thr Gly Pro Cys		
210	215	220
Arg Ala Val Met Pro Arg Trp Tyr Phe Asp Leu Ser Lys Gly Lys Cys		
225	230	235
Val Arg Phe Ile Tyr Gly Gly Cys Gly Gly Asn Arg Asn Asn Phe Glu		
245	250	255
Ser Glu Asp Tyr Cys Met Ala Val Cys Lys Ala Met Ile Pro Pro Thr		
260	265	270
Pro Leu Pro Thr Asn Asp Val Asp Val Tyr Phe Glu Thr Ser Ala Asp		
275	280	285
Asp Asn Glu His Ala Arg Phe Gln Lys Ala Lys Glu Gln Leu Glu Ile		
290	295	300
Arg His Arg Asn Arg Met Asp Arg Val Lys Lys Glu Trp Glu Glu Ala		
305	310	315
Glu Leu Gln Ala Lys Asn Leu Pro Lys Ala Glu Arg Gln Thr Leu Ile		
325	330	335
Gln His Phe Gln Ala Met Val Lys Ala Leu Glu Lys Glu Ala Ala Ser		
340	345	350
Glu Lys Gln Gln Leu Val Glu Thr His Leu Ala Arg Val Glu Ala Met		
355	360	365

Leu Asn Asp Arg Arg Arg Met Ala Leu Glu Asn Tyr Leu Ala Ala Leu
370 375 380
Gln Ser Asp Pro Pro Arg Pro His Arg Ile Leu Gln Ala Leu Arg Arg
385 390 395 400
Tyr Val Arg Ala Glu Asn Lys Asp Arg Leu His Thr Ile Arg His Tyr
405 410 415
Gln His Val Leu Ala Val Asp Pro Glu Lys Ala Ala Gln Met Lys Ser
420 425 430
Gln Val Met Thr His Leu His Val Ile Glu Glu Arg Arg Asn Gln Ser
435 440 445
Leu Ser Leu Leu Tyr Lys Val Pro Tyr Val Ala Gln Glu Ile Gln Glu
450 455 460
Glu Ile Asp Glu Leu Leu Gln Glu Gln Arg Ala Asp Met Asp Gln Phe
465 470 475 480
Thr Ala Ser Ile Ser Glu Thr Pro Val Asp Val Arg Val Ser Ser Glu
485 490 495
Glu Ser Glu Glu Ile Pro Pro Phe His Pro Phe His Pro Phe Pro Ala
500 505 510
Leu Pro Glu Asn Glu Gly Ser Gly Val Gly Glu Gln Asp Gly Gly Leu
515 520 525
Ile Gly Ala Glu Glu Lys Val Ile Asn Ser Lys Asn Lys Val Asp Glu
530 535 540
Asn Met Val Ile Asp Glu Thr Leu Asp Val Lys Glu Met Ile Phe Asn
545 550 555 560
Ala Glu Arg Val Gly Gly Leu Glu Glu Glu Arg Glu Ser Val Gly Pro
565 570 575
Leu Arg Glu Asp Phe Ser Leu Ser Ser Ser Ala Leu Ile Gly Leu Leu
580 585 590
Val Ile Ala Val Ala Ile Ala Thr Val Ile Val Ile Ser Leu Val Met

595	600	605
Leu Arg Lys Arg Gln Tyr Gly Thr Ile Ser His Gly Ile Val Glu Val		
610	615	620
Asp Pro Met Leu Thr Pro Glu Glu Arg His Leu Asn Lys Met Gln Asn		
625	630	635
His Gly Tyr Glu Asn Pro Thr Tyr Lys Tyr Leu Glu Gln Met Gln Ile		
645	650	655

<210> 3386

<211> 114

<212> PRT

<213> Homo sapiens

<400> 3386

Met Asp Thr Trp Leu Glu Ala Phe Pro Ile Ile Ser Gly Arg Asp Glu		
1	5	10
Leu Tyr Gln Asp Arg Lys Arg Pro Gly Phe Met Leu Pro Asn Ser Tyr		
20	25	30
Met Phe Thr Val Leu Gly Ser Asn Arg Pro Met Thr Thr Val Leu Cys		
35	40	45
Thr Ser Gln Ile Tyr Leu Thr Gly Phe His Leu Leu Cys Val Pro Gln		
50	55	60
Ala Leu Ser Thr Val Met Arg His Ser Lys Pro Leu Met Ser Glu Arg		
65	70	75
Ile Arg Glu Asn Ile Lys Asp Asp Ile Ala Glu Val Thr Ala Pro Gln		
85	90	95
Arg Tyr Leu Arg Trp Lys Ile Gly Gly Cys Trp Cys Leu Arg Gly Ser		
100	105	110

Lys Glu

<210> 3387

<211> 103

<212> PRT

<213> Homo sapiens

<400> 3387

Met	Ser	Ser	Tyr	Ser	His	Ser	Leu	Arg	Phe	Trp	Met	Asn	Ile	Leu	Glu
1				5					10					15	
Thr	Ile	Gln	Pro	Thr	Ala	Leu	Pro	Ser	Cys	Gly	Tyr	Ile	Tyr	Ile	Tyr
			20					25						30	
Thr	Tyr	Thr	Tyr	Leu	Phe	Phe	Ser	Asp	Arg	Val	Ser	Arg	Cys	Cys	Pro
			35				40					45			
Gly	Trp	Arg	Ala	Val	Ala	Leu	His	Arg	His	Ser	His	Arg	Val	Leu	Gln
	50					55					60				
Leu	Pro	Thr	Pro	Gly	Leu	Glu	Pro	Ser	Ser	Phe	Val	Ser	Pro	Met	Ser
	65				70					75				80	
Thr	Gly	Glu	His	Arg	Cys	Gly	Ala	Leu	Cys	Pro	Ala	Val	Val	Thr	Asp
				85					90					95	
Gly	Ala	Pro	Asp	Thr	Gly	Leu									
															100

<210> 3388

<211> 580

<212> PRT

<213> Homo sapiens

<400> 3388

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Met Met Leu Gly Asp Ala Lys Ile Gly Asn Asn Ser Val Ser Ser Leu
  1             5             10             15
Lys Asn Asp Asp Phe Thr Met Arg Gly Leu Gln Cys Asp Gly Asn Ala
      20             25             30
Asp Asp Ile Trp Thr Ala Ser Gln Asn Pro Lys Ser Cys Gly Lys Ser
      35             40             45
Ile Ser Ile Glu Thr Ala Asn Leu Arg Glu Tyr Ala Arg Tyr Val Leu
      50             55             60
Arg Thr Ile Cys Gln Gln Glu Trp Val Gly Glu His Cys Leu Lys Glu
      65             70             75             80
Pro Glu Arg Leu Cys Thr Asp Lys Glu Leu Ile Leu Asp Pro Val Leu
      85             90             95
Ser Asn Met Gln Ala Gln Lys Leu Leu Gln Leu Ile Cys Tyr Pro His
      100            105            110
Gly Ile Lys Glu Cys Thr Glu Gly Asp Asn Leu Gln Arg Gln His Ile
      115            120            125
Lys Arg Ile Leu Gln Asn Leu Glu Gln Trp Thr Leu Arg Gln Ser Trp
      130            135            140
Leu Glu Leu Gln Leu Met Ile Lys Gln Cys Leu Lys Asp Pro Gly Ser
      145            150            155            160
Gly Ser Val Ala Glu Met Asn Asn Leu Leu Asp Asn Ile Ala Lys Ala
      165            170            175
Thr Ile Glu Val Phe Gln Gln Ser Ala Asp Leu Asn Asn Ser Ser Asn
      180            185            190
Ser Gly Met Ser Leu Phe Asn Pro Asn Ser Ile Gly Ser Ala Asp Thr
      195            200            205

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Ser Ser Thr Arg Gln Asn Gly Ile Lys Thr Phe Leu Ser Ser Ser Glu
 210 215 220
 Arg Arg Gly Val Trp Leu Val Ala Pro Leu Ile Ala Arg Leu Pro Thr
 225 230 235 240
 Ser Val Gln Gly Arg Val Leu Lys Ala Ala Gly Glu Glu Leu Glu Lys
 245 250 255
 Gly Gln His Leu Gly Ser Ser Ser Lys Lys Glu Arg Asp Arg Gln Lys
 260 265 270
 Gln Lys Ser Met Ser Leu Leu Ser Gln Gln Pro Phe Leu Ser Leu Val
 275 280 285
 Leu Thr Cys Leu Lys Gly Gln Asp Glu Gln Arg Glu Gly Leu Leu Thr
 290 295 300
 Ser Leu Gln Asn Gln Val Asn Gln Ile Leu Ser Asn Trp Arg Glu Glu
 305 310 315 320
 Arg Tyr Gln Asp Asp Ile Lys Ala Arg Gln Met Met His Glu Ala Leu
 325 330 335
 Gln Leu Arg Leu Asn Leu Val Gly Gly Met Phe Asp Thr Val Gln Arg
 340 345 350
 Ser Thr Gln Trp Thr Thr Asp Trp Ala Leu Leu Leu Leu Gln Ile Ile
 355 360 365
 Thr Ser Gly Thr Val Asp Met His Thr Asn Asn Glu Leu Phe Thr Thr
 370 375 380
 Val Leu Asp Met Leu Gly Val Leu Ile Asn Gly Thr Leu Ala Ser Asp
 385 390 395 400
 Leu Ser Asn Ala Ser Pro Gly Gly Ser Glu Glu Asn Lys Arg Ala Tyr
 405 410 415
 Met Asn Leu Val Lys Lys Leu Lys Lys Glu Leu Gly Asp Lys Arg Ser
 420 425 430
 Glu Ser Ile Asp Lys Val Arg Gln Leu Leu Pro Leu Pro Lys Gln Thr

435 440 445
Cys Asp Val Ile Thr Cys Glu Pro Met Gly Ser Leu Ile Asp Thr Lys
450 455 460
Gly Asn Lys Ile Ala Gly Phe Asp Ser Ile Asp Lys Lys Gln Gly Leu
465 470 475 480
Gln Val Ser Thr Lys Gln Lys Val Ser Pro Trp Asp Leu Phe Glu Gly
485 490 495
Gln Lys Asn Pro Ala Pro Leu Ser Trp Ala Trp Phe Gly Thr Val Arg
500 505 510
Val Asp Arg Arg Val Ile Lys Tyr Glu Glu Gln His His Leu Leu Leu
515 520 525
Tyr His Thr His Pro Met Pro Lys Pro Arg Ser Tyr Tyr Leu Gln Pro
530 535 540
Leu Pro Leu Pro Pro Glu Glu Glu Glu Glu Glu Pro Thr Ser Pro Val
545 550 555 560
Ser Gln Glu Pro Glu Arg Lys Ser Ala Glu Leu Ser Asp Gln Gly Lys
565 570 575
Thr Thr Thr Asp
580

<210> 3389

<211> 100

<212> PRT

<213> Homo sapiens

<400> 3389

Met Pro Leu Ser Pro Pro Pro Ala Gly Gly Ala Trp Ala Tyr Leu Lys
1 5 10 15

Thr Leu Gly Glu Val Phe Thr Phe Leu Ala Leu Lys Lys Arg Lys Lys
 20 25 30
 Arg Gln Leu Ala Ala Glu Ala Val Pro Gly Leu Pro Ala Thr Ser Gln
 35 40 45
 Asn Leu His Arg Val Pro Leu Gly Pro Gln Ser Gly Pro Glu Ala Leu
 50 55 60
 Gly Arg Gly Thr Arg Arg Ser Ser Ala Leu Thr Ala Pro Ala Leu Phe
 65 70 75 80
 Gly Phe Ser Ser Pro Arg Ala Trp Pro Glu Phe Arg Ser Pro Gly Phe
 85 90 95
 Trp Ser Ala Arg
 100

<210> 3390

<211> 753

<212> PRT

<213> Homo sapiens

<400> 3390

Met Asp Pro Asp Pro Gln Ala Gly Val Gln Val Gly Met Arg Val Val
 1 5 10 15
 Arg Gly Val Asp Trp Lys Trp Gly Gln Gln Asp Gly Gly Glu Gly Gly
 20 25 30
 Val Gly Thr Val Val Glu Leu Gly Arg His Gly Ser Pro Ser Thr Pro
 35 40 45
 Asp Arg Thr Val Val Val Gln Trp Asp Gln Gly Thr Arg Thr Asn Tyr
 50 55 60
 Arg Ala Gly Tyr Gln Gly Ala His Asp Leu Leu Leu Tyr Asp Asn Ala

65	70	75	80
Gln Ile Gly Val Arg His Pro Asn Ile Ile Cys Asp Cys Cys Lys Lys			
	85	90	95
His Gly Leu Arg Gly Met Arg Trp Lys Cys Arg Val Cys Leu Asp Tyr			
	100	105	110
Asp Leu Cys Thr Gln Cys Tyr Met His Asn Lys His Glu Leu Ala His			
	115	120	125
Ala Phe Asp Arg Tyr Glu Thr Ala His Ser Arg Pro Val Thr Leu Ser			
	130	135	140
Pro Arg Gln Gly Leu Pro Arg Ile Pro Leu Arg Gly Ile Phe Gln Gly			
145	150	155	160
Ala Lys Val Val Arg Gly Pro Asp Trp Glu Trp Gly Ser Gln Asp Gly			
	165	170	175
Lys Pro Ala Glu Leu Gln Arg Arg Val Ser Ala Asp Ser Gln Pro Phe			
	180	185	190
Gln His Gly Asp Lys Val Lys Cys Leu Leu Asp Thr Asp Val Leu Arg			
	195	200	205
Glu Met Gln Glu Gly His Gly Gly Trp Asn Pro Arg Met Ala Glu Phe			
	210	215	220
Ile Gly Gln Thr Gly Thr Val His Arg Ile Thr Asp Arg Gly Asp Val			
225	230	235	240
Arg Val Gln Phe Asn His Glu Thr Arg Trp Thr Phe His Pro Gly Ala			
	245	250	255
Leu Thr Lys His His Ser Phe Trp Val Gly Asp Val Val Arg Val Ile			
	260	265	270
Gly Asp Leu Asp Thr Val Lys Arg Leu Gln Ala Gly His Gly Glu Trp			
	275	280	285
Thr Asp Asp Met Ala Pro Ala Leu Gly Arg Val Gly Lys Val Val Lys			
	290	295	300

Val Phe Gly Asp Gly Asn Leu Arg Val Ala Val Ala Gly Gln Arg Trp
305 310 315 320
Thr Phe Ser Pro Ser Cys Leu Val Ala Tyr Arg Pro Glu Glu Asp Ala
325 330 335
Asn Leu Asp Val Ala Glu Arg Ala Arg Glu Asn Lys Ser Ser Leu Ser
340 345 350
Val Ala Leu Asp Lys Leu Arg Ala Gln Lys Ser Asp Pro Glu His Pro
355 360 365
Gly Arg Leu Val Val Glu Val Ala Leu Gly Asn Ala Ala Arg Ala Leu
370 375 380
Asp Leu Leu Arg Arg Arg Pro Glu Gln Val Asp Thr Lys Asn Gln Gly
385 390 395 400
Arg Thr Ala Leu Gln Val Ala Ala Tyr Leu Gly Gln Val Glu Leu Ile
405 410 415
Arg Leu Leu Leu Gln Ala Arg Ala Gly Val Asp Leu Pro Asp Asp Glu
420 425 430
Gly Asn Thr Ala Leu His Tyr Ala Ala Leu Gly Asn Gln Pro Glu Ala
435 440 445
Thr Arg Val Leu Leu Ser Ala Gly Cys Arg Ala Asp Ala Ile Asn Ser
450 455 460
Thr Gln Ser Thr Ala Leu His Val Ala Val Gln Arg Gly Phe Leu Glu
465 470 475 480
Val Val Arg Ala Leu Cys Glu Arg Gly Cys Asp Val Asn Leu Pro Asp
485 490 495
Ala His Ser Asp Thr Pro Leu His Ser Ala Ile Ser Ala Gly Thr Gly
500 505 510
Ala Ser Gly Ile Val Glu Val Leu Thr Glu Val Pro Asn Ile Asp Val
515 520 525
Thr Ala Thr Asn Ser Gln Gly Phe Thr Leu Leu His His Ala Ser Leu

530 535 540
Lys Gly His Ala Leu Ala Val Arg Lys Ile Leu Ala Arg Ala Arg Gln
545 550 555 560
Leu Val Asp Ala Lys Lys Glu Asp Gly Phe Thr Ala Leu His Leu Ala
 565 570 575
Ala Leu Asn Asn His Arg Glu Val Ala Gln Ile Leu Ile Arg Glu Gly
 580 585 590
Arg Cys Asp Val Asn Val Arg Asn Arg Lys Leu Gln Ser Pro Leu His
 595 600 605
Leu Ala Val Gln Gln Ala His Val Gly Leu Val Pro Leu Leu Val Asp
 610 615 620
Ala Gly Cys Ser Val Asn Ala Glu Asp Glu Glu Gly Asp Thr Ala Leu
625 630 635 640
His Val Ala Leu Gln Arg His Gln Leu Leu Pro Leu Val Ala Asp Gly
 645 650 655
Ala Gly Gly Asp Pro Gly Pro Leu Gln Leu Leu Ser Arg Leu Gln Ala
 660 665 670
Ser Gly Leu Pro Gly Ser Ala Glu Leu Thr Val Gly Ala Ala Val Ala
 675 680 685
Cys Phe Leu Ala Leu Glu Gly Ala Asp Val Ser Tyr Thr Asn His Arg
 690 695 700
Gly Arg Ser Pro Leu Asp Leu Ala Ala Glu Gly Arg Val Leu Lys Ala
705 710 715 720
Leu Gln Gly Cys Ala Gln Arg Phe Arg Val Arg Ala Gln Asp Glu Glu
 725 730 735
Val His Gln Val Pro Gly Gly Arg Gln Gln Glu Thr Ala Pro Arg Arg
 740 745 750
Leu

<210> 3391

<211> 640

<212> PRT

<213> Homo sapiens

<400> 3391

Met Glu Ala Thr Glu Pro Gln Asp Met Val Val Tyr Asp Gln Ser Thr

1 5 10 15

Arg Asp Ala Ser Val Leu Ala Ala Asp Arg Phe Leu Ser Ile Leu Leu

20 25 30

Ser Lys Leu Asp Ser Cys Phe Asp Ser Val Ala Ile Leu Thr Gly Gly

35 40 45

Phe Ala Thr Phe Ser Ser Cys Phe Pro Ser Leu Cys Gln Gly Lys Pro

50 55 60

Ala Ala Leu Leu Pro Met Ser Leu Ser Gln Pro Cys Leu Pro Val Pro

65 70 75 80

Ser Val Ser Leu Thr Leu Ile Leu Pro His Leu Tyr Leu Gly Ser Gln

85 90 95

Lys Asp Val Leu Asn Lys Asp Leu Thr Thr Gln Asn Gly Ile Ser Tyr

100 105 110

Val Leu Asn Ala Ser Asn Ser Thr Phe Glu Ala Cys Asp Pro Gln Arg

115 120 125

Thr Gly Thr Val Ala Val Ala Gln Val Leu Ala Tyr Leu Glu Ala Val

130 135 140

Thr Gly Gln Gly Pro Gln Asp Ala Arg Leu Gln Thr Leu Ala Asn Ser

145 150 155 160

Leu Asp Pro Asn Gly Glu Gly Pro Lys Ala Thr Val Asp Leu Asp Thr

165	170	175
Phe Leu Val Val Met Arg Asp Trp Ile Ala Ala Cys Gln Leu His Gly		
180	185	190
Gly Leu Glu Leu Glu Glu Glu Thr Ala Phe Gln Gly Ala Leu Thr Ser		
195	200	205
Gln Gln Leu Pro Ser Gly Cys Pro Glu Ala Glu Glu Pro Ala Asn Leu		
210	215	220
Glu Ser Phe Gly Gly Glu Asp Pro Arg Pro Glu Leu Gln Ala Thr Ala		
225	230	235
240		
Asp Leu Leu Ser Ser Leu Glu Asp Leu Glu Leu Ser Asn Arg Arg Leu		
245	250	255
Val Gly Glu Asn Ala Lys Leu Gln Arg Ser Met Glu Thr Ala Glu Glu		
260	265	270
Gly Ser Ala Arg Leu Gly Glu Glu Ile Leu Ala Leu Arg Lys Gln Leu		
275	280	285
His Ser Thr Gln Gln Ala Leu Gln Phe Ala Lys Ala Met Asp Glu Glu		
290	295	300
Leu Glu Asp Leu Lys Thr Leu Ala Arg Ser Leu Glu Glu Gln Asn Arg		
305	310	315
320		
Ser Leu Leu Ala Gln Ala Arg Gln Ala Glu Lys Glu Gln Gln His Leu		
325	330	335
Val Ala Glu Met Glu Thr Leu Gln Glu Glu Asn Gly Lys Leu Leu Ala		
340	345	350
Glu Arg Asp Gly Val Lys Lys Arg Ser Gln Glu Leu Ala Met Glu Lys		
355	360	365
Asp Thr Leu Lys Arg Gln Leu Phe Glu Cys Glu His Leu Ile Cys Gln		
370	375	380
Arg Asp Thr Ile Leu Ser Glu Arg Thr Arg Asp Val Glu Ser Leu Ala		
385	390	395
400		

Gln Thr Leu Glu Glu Tyr Arg Val Thr Thr Gln Glu Leu Arg Leu Glu
 405 410 415
 Ile Ser Arg Leu Glu Glu Gln Leu Ser Gln Thr Tyr Glu Gly Pro Asp
 420 425 430
 Glu Leu Pro Glu Gly Ala Gln Leu Arg Arg Val Gly Trp Thr Glu Leu
 435 440 445
 Leu Pro Pro Ser Leu Gly Leu Glu Ile Glu Ala Ile Arg Gln Glu Val
 450 455 460
 Ala Thr Ala Asp Leu Ser Asn Pro Leu Cys Gly Val Trp Gln Trp Glu
 465 470 475 480
 Glu Val Ile His Glu Thr Ser Glu Glu Thr Glu Phe Pro Ser Glu Ala
 485 490 495
 Pro Ala Gly Gly Gln Arg Asn Phe Gln Gly Glu Pro Ala His Pro Glu
 500 505 510
 Glu Gly Arg Lys Glu Pro Ser Met Trp Leu Thr Arg Arg Glu Glu Glu
 515 520 525
 Glu Asp Ala Glu Ser Gln Val Thr Ala Asp Leu Pro Val Pro Leu Gly
 530 535 540
 Ala Pro Arg Pro Gly Asp Ile Pro Glu Asn Pro Pro Glu Arg Pro Ala
 545 550 555 560
 Arg Arg Glu Leu Gln Gln Ala Leu Val Pro Val Met Lys Lys Leu Val
 565 570 575
 Pro Val Arg Arg Arg Ala Trp Gly Gln Leu Cys Leu Pro Pro Gln Arg
 580 585 590
 Leu Arg Val Thr Arg His Pro Leu Ile Pro Ala Pro Val Leu Gly Leu
 595 600 605
 Leu Leu Leu Leu Leu Leu Ser Val Leu Leu Leu Gly Pro Ser Pro Pro
 610 615 620
 Pro Thr Trp Pro His Leu Gln Leu Cys Tyr Leu Gln Pro Pro Pro Val

625

630

635

640

<210> 3392

<211> 116

<212> PRT

<213> Homo sapiens

<400> 3392

Met Pro Met Glu Asn Pro Lys Lys Ser Arg Asn Ser Tyr Thr Tyr Ile

1

5

10

15

Arg Gln Ser Arg Val Gln Asp Lys Asn Gly Lys Asn Arg Gln Arg Arg

20

25

30

Ser Leu Cys Asn Asp Thr Gly Val Asn Ser Ala Arg Gly Tyr Asn Asp

35

40

45

Cys Lys Tyr Arg Tyr Thr Gln His Trp Asn Ile Gln Ile Tyr Lys Thr

50

55

60

Asn Ile Ile Arg Ala Lys Lys Arg Asn Arg Ala Gln Tyr Asn Asn Ser

65

70

75

80

Trp Arg Leu Gln His Leu Ala Phe Ser Thr Gly Gln Ile Ser Gln Thr

85

90

95

Glu Asn Gln Gln Ile Leu Asp Ile Ile Cys Thr Ile Glu Gln Ile Asp

100

105

110

Ile Tyr Arg Ile

115

<210> 3393

<211> 125

<212> PRT

<213> Homo sapiens

<400> 3393

Met His His Tyr Ala Gln Leu Ile Phe Leu Phe Leu Val Glu Met Gly

1 5 10 15

Phe Leu His Val Gly Gln Ala Ser Leu Glu Leu Pro Thr Ser Gly Asp

20 25 30

Gln Pro Ala Pro Ala Pro Gln Gly Ser Gly Ile Thr Gly Val Ser His

35 40 45

His Ala Gln Val Phe Phe Phe Phe Phe Leu Asp Gly Val Ser Leu Leu

50 55 60

Leu Pro Arg Leu Glu Cys Ser Gly Thr Ile Leu Thr His Arg Asn Leu

65 70 75 80

Gln Pro Leu Pro Pro Gly Phe Lys Gln Leu Ser Cys Leu Ser Leu Pro

85 90 95

Ser Ser Trp Asp Tyr Arg Arg Ala Leu Pro His Leu Ala Ile Phe Phe

100 105 110

Phe Phe Phe Lys Val Ala Thr Glu Phe Leu His Val Gly

115 120 125

<210> 3394

<211> 137

<212> PRT

<213> Homo sapiens

<400> 3394

Met Ile Thr Phe Ala Tyr Trp Glu Gln Cys Ile Cys Glu Glu Thr Leu

1	5	10	15
Arg Pro Ser Arg Asp His Pro Pro His His Pro Leu Gln Pro Arg Ser			
20	25	30	
Trp Phe Cys Pro Pro Gln Met Leu Leu Glu Lys Leu Asn Gly Thr Val			
35	40	45	
Pro Cys Leu Leu Asp Thr Ser Thr Ile Pro Ala Glu Glu Leu Thr Met			
50	55	60	
Ser Pro Ser Arg Ser Val Ala Asn Ser Gly Leu Ser Asp Ser Leu Thr			
65	70	75	80
Thr Ser Thr Pro Arg Pro Ser Asn Gly Asp Ser Pro Ser His Pro Tyr			
85	90	95	
His Arg Thr Phe Ser Pro His Phe His His Phe Val Glu Gln Cys Leu			
100	105	110	
Gln Arg Asn Pro Asp Ala Arg Tyr Pro Cys Trp Pro Gly Pro Gly Leu			
115	120	125	
Arg Glu Ser Arg Gly Cys Ser Gly Gly			
130	135		

<210> 3395

<211> 113

<212> PRT

<213> Homo sapiens

<400> 3395

Met Ala Pro Cys Gly Gly Pro Thr Ala Gly Ala Gly Gly Lys Val Ser			
1	5	10	15
Pro Ser Thr Arg His Lys His Arg His Thr Pro Gly Gly Cys Leu Ala			
20	25	30	

Gln Ala Gln Val Met Pro Ser Thr Gly Cys Cys Trp Trp Pro Arg Leu
 35 40 45
 Cys Leu Ala Ser Glu Val Gly Ala Val Gly Cys Ala Ser Ser Arg Thr
 50 55 60
 Glu Val Ser Gly Asp Thr Gly Pro Gly Gln Lys His Ile Gln Thr His
 65 70 75 80
 Ser Cys Phe Ser Asn Glu Thr His Ser Gln Pro Gly Ser Lys Gln Ile
 85 90 95
 Thr Gly Cys Thr Leu Leu Ala Leu Gly Asn Met Asn Val Ser Arg His
 100 105 110
 Tyr

<210> 3396

<211> 198

<212> PRT

<213> Homo sapiens

<400> 3396

Met Ile Glu Glu Thr Ser Phe Gly Lys Ser Tyr Ala Gln Leu Asn Phe
 1 5 10 15
 Glu Asn Ser Met Leu Trp Met Asp Leu Pro Asp Glu Glu Pro Asp Arg
 20 25 30
 Leu Ser Asn Lys Leu Leu Gln Tyr Asp Pro Ser Gln Asp Gln Trp Ser
 35 40 45
 Val Arg Ala Pro Met Lys Tyr Ser Lys Tyr Arg Phe Ser Thr Ala Val
 50 55 60
 Val Asn Ser Glu Ile Tyr Val Leu Gly Gly Ile Gly Cys Val Gly Gln

65	70	75	80
Asp Lys Gly Gln Val Arg Lys Cys Leu Asp Val Val Glu Ile Tyr Asn			
	85	90	95
Pro Asp Gly Asp Phe Trp Arg Glu Gly Pro Pro Met Pro Ser Pro Leu			
	100	105	110
Leu Ser Leu Arg Thr Asn Ser Thr Asn Ala Gly Ala Val Asp Gly Lys			
	115	120	125
Leu Tyr Val Cys Gly Gly Phe His Gly Ala Asp Arg His Glu Val Ile			
	130	135	140
Ser Lys Glu Ile Leu Glu Leu Asp Pro Trp Glu Asn Gln Trp Asn Val			
145	150	155	160
Val Ala Ile Asn Val Leu Met His Asp Ser Tyr Asp Val Cys Leu Val			
	165	170	175
Ala Arg Met Asn Pro Arg Asp Leu Ile Pro Pro Pro Ser Asp Leu Val			
	180	185	190
Glu Glu Gly Asn Glu His			
195			

<210> 3397

<211> 158

<212> PRT

<213> Homo sapiens

<400> 3397

Met Leu Asp Gly Gly Arg Asn Gly Arg Leu Leu Glu Leu Ser Ser Leu			
1	5	10	15
Leu Pro Glu Arg Gly Gly Gly Pro Ser Leu Cys Arg Ser Pro Ala Ser			
	20	25	30

Thr Glu Lys Glu Val Gly Ala Cys Gly Thr Leu Ala Ser Leu Arg Arg
 35 40 45
 Gly Leu Trp Lys Cys Ser Leu Cys Pro Gly Pro Ala Leu Leu Leu Gly
 50 55 60
 Gly Ser Cys Cys Leu Ile Cys Ser Leu Ser Leu Leu Leu Ser Thr
 65 70 75 80
 Pro Thr Phe Phe Ser Arg Asn Phe Glu Pro Ser Phe Ser Pro Ser Pro
 85 90 95
 Ile Glu Lys Pro Ser Ala Pro Ser Ser Gly Gln Ser Ser Gln Leu Gln
 100 105 110
 Thr Gln Val Gln Pro Pro Ala Glu Arg Gly Ala Ala Ser Met Pro Gly
 115 120 125
 Pro Ala Ser Leu Pro Leu Ser Thr Gly Pro Ser Gln Pro Leu Arg Cys
 130 135 140
 Ser Pro Arg Val Leu Cys Ser Arg Val Leu Ala Leu Arg Arg
 145 150 155

<210> 3398

<211> 134

<212> PRT

<213> Homo sapiens

<400> 3398

Met Gln Val Cys Tyr Ile Gly Ile His Met Pro Trp Trp Phe Ala Ala
 1 5 10 15
 Pro Ile Asn Pro Ser Ser Thr Leu Gly Ile Ser Pro Asn Ala Ile Pro
 20 25 30
 Thr Leu Val Pro His Leu Pro Asn Arg Pro Trp Cys Val Ile Phe Pro

35 40 45
 Ser Leu Cys Pro Cys Val Leu Ile Val Gln Leu Pro Leu Met Ser Glu
 50 55 60
 Asn Met Gln Cys Leu Val Phe Cys Ser Cys Val Ser Leu Leu Arg Met
 65 70 75 80
 Met Val Ser Ser Phe Ile His Phe Pro Ala Lys Asp Met Asn Ser Ser
 85 90 95
 Phe Phe Tyr Gly Cys Leu Val Phe His Gly Val Tyr Met Pro His Phe
 100 105 110
 Leu Tyr Pro Val Tyr Pro Val Tyr Leu Leu Val Gly Ile Trp Val Gly
 115 120 125
 Ser Lys Ser Leu Leu Leu
 130

<210> 3399

<211> 557

<212> PRT

<213> Homo sapiens

<400> 3399

Met Ala Ser Gly Gly Gly Gly Cys Ser Ala Ser Glu Arg Leu Pro Pro
 1 5 10 15
 Pro Phe Pro Gly Leu Glu Pro Glu Ser Glu Gly Ala Ala Gly Gly Ser
 20 25 30
 Glu Pro Glu Ala Gly Asp Ser Asp Thr Glu Gly Glu Asp Ile Phe Thr
 35 40 45
 Gly Ala Ala Val Val Ser Lys His Gln Ser Pro Lys Ile Thr Thr Ser
 50 55 60

Leu Leu Pro Ile Asn Asn Gly Ser Lys Glu Asn Gly Ile His Glu Glu
 65 70 75 80
 Gln Asp Gln Glu Pro Gln Asp Leu Phe Ala Asp Ala Thr Val Glu Leu
 85 90 95
 Ser Leu Asp Ser Thr Gln Asn Asn Gln Lys Lys Val Leu Ala Lys Thr
 100 105 110
 Leu Ile Ser Leu Pro Pro Gln Glu Ala Thr Asn Ser Ser Lys Pro Gln
 115 120 125
 Pro Thr Tyr Glu Glu Leu Glu Glu Glu Glu Gln Glu Asp Gln Phe Asp
 130 135 140
 Leu Thr Val Gly Ile Thr Asp Pro Glu Lys Ile Gly Asp Gly Met Asn
 145 150 155 160
 Ala Tyr Val Ala Tyr Lys Val Thr Thr Gln Thr Ser Leu Pro Leu Phe
 165 170 175
 Arg Ser Lys Gln Phe Ala Val Lys Arg Arg Phe Ser Asp Phe Leu Gly
 180 185 190
 Leu Tyr Glu Lys Leu Ser Glu Lys His Ser Gln Asn Gly Phe Ile Val
 195 200 205
 Pro Pro Pro Pro Glu Lys Ser Leu Ile Gly Met Thr Lys Val Lys Val
 210 215 220
 Gly Lys Glu Asp Ser Ser Ser Ala Glu Phe Leu Glu Lys Arg Arg Ala
 225 230 235 240
 Ala Leu Glu Arg Tyr Leu Gln Arg Ile Val Asn His Pro Thr Met Leu
 245 250 255
 Gln Asp Pro Asp Val Arg Glu Phe Leu Glu Lys Glu Glu Leu Pro Arg
 260 265 270
 Ala Val Gly Thr Gln Thr Leu Ser Gly Ala Gly Leu Leu Lys Met Phe
 275 280 285
 Asn Lys Ala Thr Asp Ala Val Ser Lys Met Thr Ile Lys Met Asn Glu

290 295 300
Ser Asp Ile Trp Phe Glu Glu Lys Leu Gln Glu Val Glu Cys Glu Glu
305 310 315 320
Gln Arg Leu Arg Lys Leu His Ala Val Val Glu Thr Leu Val Asn His
325 330 335
Arg Lys Glu Leu Ala Leu Asn Thr Ala Gln Phe Ala Lys Ser Leu Ala
340 345 350
Met Leu Gly Ser Ser Glu Asp Asn Thr Ala Leu Ser Arg Ala Leu Ser
355 360 365
Gln Leu Ala Glu Val Glu Glu Lys Ile Glu Gln Leu His Gln Glu Gln
370 375 380
Ala Asn Asn Asp Phe Phe Leu Leu Ala Glu Leu Leu Ser Asp Tyr Ile
385 390 395 400
Arg Leu Leu Ala Ile Val Arg Ala Ala Phe Asp Gln Arg Met Lys Thr
405 410 415
Trp Gln Arg Trp Gln Asp Ala Gln Ala Thr Leu Gln Lys Lys Arg Glu
420 425 430
Ala Glu Ala Arg Leu Leu Trp Ala Asn Lys Pro Asp Lys Leu Gln Gln
435 440 445
Ala Lys Asp Glu Ile Leu Glu Trp Glu Ser Arg Val Thr Gln Tyr Glu
450 455 460
Arg Asp Phe Glu Arg Ile Ser Thr Val Val Arg Lys Glu Val Ile Arg
465 470 475 480
Phe Glu Lys Glu Lys Ser Lys Asp Phe Lys Asn His Val Ile Lys Tyr
485 490 495
Leu Glu Thr Leu Leu Cys Ser Gln Gln Gln Ala Gly Glu Gln Leu Gly
500 505 510
Ile Arg Ser Gly Ile Leu Leu Thr Lys Lys Leu Pro Arg Tyr Ser Lys
515 520 525

Phe Phe Ser Thr Val His Lys Phe Cys Ala Ala Ala Ser Leu Trp Lys

530

535

540

Trp Gly Phe Phe Leu Ser Ala Tyr Leu Ser Tyr Leu Phe

545

550

555

<210> 3400

<211> 556

<212> PRT

<213> Homo sapiens

<400> 3400

Met His Pro Met Ala Leu His Met Val Leu Pro Ala His Leu Pro Phe

1

5

10

15

Leu Ser Pro Glu Val Leu Arg Leu Leu Glu Val His Val Lys Lys Trp

20

25

30

Met His Phe Gln Arg Trp Gly Leu Pro Arg Arg Val Glu Glu Ser Leu

35

40

45

Arg Gln Leu Met Pro Asn Pro Pro Leu Tyr Tyr Gln Pro Gly Asn Asp

50

55

60

Gln Pro Val Ser Phe Asn Leu Asn Asn Thr Ser Gln Val Ser Leu His

65

70

75

80

Arg Ser Glu Thr Ile Ser Leu Gln Thr Trp Cys Ser Cys Val Ala Gly

85

90

95

Gln Pro Ile Gln Thr Phe Trp Val Ser Glu Trp Ser Thr Met Asn Pro

100

105

110

Glu Gln Arg His His Cys Gln Gln Thr Pro Asn Pro Met Ala Leu Ala

115

120

125

Leu Pro Ser Pro Ala Leu Lys Ala Leu Ser Gly Pro His Pro Gln Ser

130 135 140
Gly Gly Gln Asp Asn Asp Ser Gly Ser Asp Leu Gln Gln Lys Tyr Ser
145 150 155 160
Gln Leu Phe Cys Gly Leu Pro Ser Leu His Ser Glu Ser Leu Val Ala
165 170 175
Thr Phe Met Gly Ser Gln Gly Leu Pro Lys Ile Glu Asn Val Pro Lys
180 185 190
Pro Pro Leu Lys Asp Pro Phe Leu Phe Asn Glu Leu Ser Phe Pro Gln
195 200 205
Leu Leu Pro Lys Thr Ser Pro Gln Ser Ala Pro Pro Ser Ser Pro Leu
210 215 220
Ser Pro Asn Trp Val Ser Pro Ser Asp His Gln Arg Ala Gln Ile Asn
225 230 235 240
Val Pro Phe Leu Thr Leu Ala Glu Tyr Glu Ala Leu Glu Trp His Leu
245 250 255
Leu Gln Arg Gln Leu Gln Leu Gln Trp Gly Trp Pro Ala Ala Leu Gln
260 265 270
Arg Ser Gln His Thr Gln Cys Leu Met Gln His Glu Pro Cys Gly Lys
275 280 285
Ala Gln Ser Pro Glu Thr Thr Thr Ala Ser Gln Thr Gly Lys Ser Ile
290 295 300
Ser Val Leu Thr Arg Glu Leu Leu Phe Phe Pro Glu His Ala Arg Lys
305 310 315 320
Leu Leu Glu Phe His Ile Gln Lys Gln Ser Ile Arg His Arg Trp Gly
325 330 335
Leu Pro Gln Lys Ile Gln Gln Ser Ile Gln Leu Leu Leu Thr Ser Thr
340 345 350
Asp Gln Gln Thr Val Ser Ser Ser Ser Thr Ala Leu Ala Asn Val Ser
355 360 365

Ile Pro Gln Pro Val Ala Leu Glu Ala Asn Gly Ala Cys Asp Val Leu
370 375 380
Ser Pro Ile Ala Ala Pro Val Ser Ile Pro Arg Pro His Leu Leu Thr
385 390 395 400
Gln Val Lys Ala Ile Leu Gln Ser His Ile Asp Ser Lys Cys Gly Gln
405 410 415
Ile His Gln Gly Lys Ile Pro Ala Cys Val His Arg Ser Trp Asp Cys
420 425 430
Arg Ile Ser Gly Val Leu Ala Val Ala Pro Phe Pro Cys Ile Pro Glu
435 440 445
Ser Gln Phe Leu Val Leu Gln Thr Ala Ser Asp Pro Asp Leu His His
450 455 460
Lys Val Met Pro Trp Met Pro Thr Ala Leu Asp Gln Gln Gln Gln Ala
465 470 475 480
Leu Pro Gly Thr Val Thr Glu His Pro Lys Leu Leu Arg Val Leu Ser
485 490 495
Val Glu Ala Ile Glu Lys Leu Glu Thr Thr Leu Arg His Lys His Leu
500 505 510
Ala Phe Leu Ser Gly Leu Pro Ala Leu Tyr Tyr Val Ala Leu Pro Arg
515 520 525
Ala Leu Ala Pro Ala Val Thr Ser Gln Ser Val Ile Thr Glu Met Glu
530 535 540
Pro Ser Pro Val Glu Ile Pro Ala Glu Pro Leu Ile
545 550 555

<210> 3401

<211> 620

<212> PRT

<213> Homo sapiens

<400> 3401

Met Ala Ser Asp Ser Met Ser Ser Lys Gln Ala Arg Asn His Ile Thr
 1 5 10 15
 Lys Gly Lys Arg Gln Gln Gln His Gln Gln Ile Lys Asn Arg Ser Ser
 20 25 30
 Ile Ser Asp Gly Asp Gly Glu Asp Ser Phe Ile Phe Glu Ala Asn Glu
 35 40 45
 Ala Trp Lys Asp Phe His Gly Ser Leu Leu Arg Phe Tyr Glu Asn Gly
 50 55 60
 Glu Leu Cys Asp Val Thr Leu Lys Val Gly Ser Lys Leu Ile Ser Cys
 65 70 75 80
 His Lys Leu Val Leu Ala Cys Val Ile Pro Tyr Phe Arg Ala Met Phe
 85 90 95
 Leu Ser Glu Met Ala Glu Ala Lys Gln Thr Leu Ile Glu Ile Arg Asp
 100 105 110
 Phe Gly Gly Asp Ala Ile Glu Asp Leu Val Lys Phe Val Tyr Ser Ser
 115 120 125
 Arg Leu Thr Leu Thr Val Asp Asn Val Gln Pro Leu Leu Tyr Ala Ala
 130 135 140
 Cys Ile Leu Gln Val Glu Leu Val Ala Arg Ala Cys Cys Glu Tyr Met
 145 150 155 160
 Lys Leu His Phe His Pro Ser Asn Cys Leu Ala Val Arg Ala Phe Ala
 165 170 175
 Glu Ser His Asn Arg Ile Asp Leu Met Asp Met Ala Asp Gln Tyr Ala
 180 185 190
 Cys Asp His Phe Thr Glu Val Val Glu Cys Glu Asp Phe Val Ser Val
 195 200 205

Ser Pro Gln His Leu His Lys Leu Leu Ser Ser Ser Asp Leu Asn Ile
 210 215 220
 Glu Asn Glu Lys Gln Val Tyr Asn Ala Ala Ile Lys Trp Leu Leu Ala
 225 230 235 240
 Asn Pro Gln His His Ser Lys Trp Leu Asp Glu Thr Leu Ala Gln Val
 245 250 255
 Arg Leu Pro Leu Leu Pro Val Asp Phe Leu Met Gly Val Val Ala Lys
 260 265 270
 Glu Gln Ile Val Lys Gln Asn Leu Lys Cys Arg Asp Leu Leu Asp Glu
 275 280 285
 Ala Arg Asn Tyr His Leu His Leu Ser Ser Arg Ala Val Pro Asp Phe
 290 295 300
 Glu Tyr Ser Ile Arg Thr Thr Pro Arg Lys His Thr Ala Gly Val Leu
 305 310 315 320
 Phe Cys Val Gly Gly Arg Gly Gly Ser Gly Asp Pro Phe Arg Ser Ile
 325 330 335
 Glu Cys Tyr Ser Ile Asn Lys Asn Ser Trp Phe Phe Gly Pro Glu Met
 340 345 350
 Asn Ser Arg Arg Arg His Val Gly Val Ile Ser Val Glu Gly Lys Val
 355 360 365
 Tyr Ala Val Gly Gly His Asp Gly Asn Glu His Leu Gly Ser Met Glu
 370 375 380
 Met Phe Asp Pro Leu Thr Asn Lys Trp Met Met Lys Ala Ser Met Asn
 385 390 395 400
 Thr Lys Arg Arg Gly Ile Ala Leu Ala Ser Leu Gly Gly Pro Ile Tyr
 405 410 415
 Ala Ile Gly Gly Leu Asp Asp Asn Thr Cys Phe Asn Asp Val Glu Arg
 420 425 430
 Tyr Asp Ile Glu Ser Asp Gln Trp Ser Thr Val Ala Pro Met Asn Thr

435 440 445
Pro Arg Gly Gly Val Gly Ser Val Ala Leu Val Asn His Val Tyr Ala
450 455 460
Val Gly Gly Asn Asp Gly Met Ala Ser Leu Ser Ser Val Glu Arg Tyr
465 470 475 480
Asp Pro His Leu Asp Lys Trp Ile Glu Val Lys Glu Met Gly Gln Arg
485 490 495
Arg Ala Gly Asn Gly Val Ser Lys Leu His Gly Cys Leu Tyr Val Val
500 505 510
Gly Gly Phe Asp Asp Asn Ser Pro Leu Ser Ser Val Glu Arg Tyr Asp
515 520 525
Pro Arg Ser Asn Lys Trp Asp Tyr Val Ala Ala Leu Thr Thr Pro Arg
530 535 540
Gly Gly Val Gly Ile Ala Thr Val Met Gly Lys Ile Phe Ala Val Gly
545 550 555 560
Gly His Asn Gly Asn Ala Tyr Leu Asn Thr Val Glu Ala Phe Asp Pro
565 570 575
Val Leu Asn Arg Trp Glu Leu Val Gly Ser Val Ser His Cys Arg Ala
580 585 590
Gly Ala Gly Val Ala Val Cys Ser Cys Leu Thr Ser Gln Ile Arg Asp
595 600 605
Val Gly His Gly Ser Asn Asn Val Val Asp Cys Met
610 615 620

<210> 3402

<211> 137

<212> PRT

<213> Homo sapiens

<400> 3402

Met Pro Glu Val Ser Val Leu Asp Pro Leu Phe Leu Gly Cys Leu Leu
 1 5 10 15
 Leu Gly Phe Leu Ile Leu Asn Ser Leu Glu Phe Pro Pro Leu Pro Pro
 20 25 30
 Leu Phe Gln Ile Ser Tyr Ser Ser Thr Pro Ile Ala Tyr Gln Leu Cys
 35 40 45
 Pro Trp Asn Cys Thr Ser His Gln Gly Tyr Lys Gly Lys Ile Ser Leu
 50 55 60
 Cys Pro Gln Gly Ala Leu Asn Ser Ser Ser Leu Leu Ser Leu Glu Asp
 65 70 75 80
 Tyr Leu Leu Lys Gln Thr Ser Phe Trp Thr Val Ala Pro Phe Phe Phe
 85 90 95
 Phe Phe Phe Phe His Leu Asn Tyr Gly Ser Ser Ser Thr Arg Arg Ala
 100 105 110
 Gly Ile Arg Thr Gln Val Arg Leu Thr Cys Pro Gly Phe Ser Phe Gln
 115 120 125
 Ser Ala Thr Leu Cys Leu Pro Val Asn
 130 135

<210> 3403

<211> 168

<212> PRT

<213> Homo sapiens

<400> 3403

Met Glu Ala Ala Ser Leu Trp Gly Cys Ser Arg Asp Leu Gly Arg Gly

1	5	10	15
Gly Ser Gln His Gly Cys Pro Ala Ala Gln His Gly Ala Asp Ala Glu			
20	25	30	
Val Lys Glu Lys Glu Gln Glu Ala Gly Gly Val Ser Tyr Trp Asp Ile			
35	40	45	
Gly Lys Asn Glu Ile Asn Ser Pro Gly Lys Arg Trp Leu Gly Lys Arg			
50	55	60	
Thr Thr Glu Arg Trp Leu Gly Lys Arg Val Thr Glu Arg Trp Leu Gly			
65	70	75	80
Lys Arg Ala Thr Glu Arg Trp Leu Gly Lys Arg Ala Thr Glu Arg Trp			
85	90	95	
Leu Gly Lys Arg Ala Thr Glu Arg Trp Leu Gly Lys Arg Ala Thr Glu			
100	105	110	
Arg Trp Leu Gly Lys Arg Ala Thr Glu Arg Trp Leu Gly Lys Arg Ala			
115	120	125	
Thr Glu Arg Trp Leu Gly Lys Cys Thr Thr Gly Leu Ser Gly Cys His			
130	135	140	
Leu Gly Arg Gly Arg Arg Gln Pro Ala Phe Pro Ser Phe Ala Val Thr			
145	150	155	160
Ala Val Ser Val Ala Val Arg Thr			
165			

<210> 3404

<211> 1140

<212> PRT

<213> Homo sapiens

<400> 3404

Met Pro Gln Val Leu Trp Pro Arg Ile Leu Thr Phe Val Val Pro Ala
 1 5 10 15
 Glu Tyr Thr Glu Ala Leu Glu Pro Leu Phe Ser Ile Ile Arg Ile Leu
 20 25 30
 Ile Met Ala Glu Glu Lys Lys Gln His Ser Ala Lys Glu Ser Thr Ala
 35 40 45
 Leu Val Ile Ser Thr Gly Ala Val Lys Leu Pro Ser Pro Gln Gln Leu
 50 55 60
 Leu Ala Arg Leu Leu Val Ile Ser Met Pro Ala Ser Leu Gly Glu Leu
 65 70 75 80
 Arg Gly Ala Gly Ala Ile Gly Leu Leu Lys Ile Leu Pro Glu Ile Ile
 85 90 95
 His Pro Lys Leu Val Asp Leu Trp Lys Thr Arg Leu Pro Glu Leu Leu
 100 105 110
 Gln Pro Leu Glu Gly Lys Asn Ile Ser Thr Val Leu Trp Glu Thr Met
 115 120 125
 Leu Leu Gln Leu Leu Lys Glu Ser Leu Trp Lys Ile Ser Asp Val Ala
 130 135 140
 Trp Thr Ile Gln Leu Thr Gln Asp Phe Lys Gln Gln Met Gly Ser Tyr
 145 150 155 160
 Ser Asn Asn Ser Thr Glu Lys Lys Phe Leu Trp Lys Ala Leu Gly Thr
 165 170 175
 Thr Leu Ala Cys Cys Gln Asp Ser Asp Phe Val Asn Ser Gln Ile Lys
 180 185 190
 Glu Phe Leu Thr Ala Pro Asn Gln Leu Gly Asp Gln Arg Gln Gly Ile
 195 200 205
 Thr Ser Ile Leu Gly Tyr Cys Ala Glu Asn His Leu Asp Ile Val Leu
 210 215 220
 Lys Val Leu Lys Thr Phe Gln Asn Gln Glu Lys Phe Phe Met Asn Arg

225 230 235 240
Cys Lys Ser Leu Phe Ser Gly Lys Lys Ser Leu Thr Lys Thr Asp Val
 245 250 255
Met Val Ile Tyr Gly Ala Val Ala Leu His Ala Pro Lys Lys Gln Leu
 260 265 270
Leu Ser Arg Leu Asn Gln Asp Ile Ile Ser Gln Val Leu Ser Leu His
 275 280 285
Gly Gln Cys Ser Gln Val Leu Gly Met Ser Val Met Asn Lys Asp Met
 290 295 300
Asp Leu Gln Met Ser Phe Thr Arg Ser Ile Thr Glu Ile Gly Ile Ala
305 310 315 320
Val Gln Asp Ala Glu Asp Gln Gly Phe Gln Phe Ser Tyr Lys Glu Met
 325 330 335
Leu Ile Gly Tyr Met Leu Asp Phe Ile Arg Asp Glu Pro Leu Asp Ser
 340 345 350
Leu Ala Ser Pro Ile Arg Trp Lys Ala Leu Ile Ala Ile Arg Tyr Leu
 355 360 365
Ser Lys Leu Lys Pro Gln Leu Ser Leu Gln Asp His Leu Asn Ile Leu
 370 375 380
Glu Glu Asn Ile Arg Arg Leu Leu Pro Leu Pro Pro Leu Glu Asn Leu
385 390 395 400
Lys Ser Glu Gly Gln Thr Asp Lys Asp Lys Glu His Ile Gln Phe Leu
 405 410 415
Tyr Glu Arg Ser Met Asp Ala Leu Gly Lys Leu Leu Lys Thr Met Met
 420 425 430
Trp Asp Asn Val Asn Ala Glu Asp Cys Gln Glu Met Phe Asn Leu Leu
 435 440 445
Gln Met Trp Leu Val Ser Gln Lys Glu Trp Glu Arg Glu Arg Ala Phe
 450 455 460

Gln Ile Thr Ala Lys Val Leu Thr Lys Asp Ile Glu Ala Pro Glu Asn
465 470 475 480
Phe Lys Ile Gly Ser Leu Leu Gly Leu Leu Ala Pro His Ser Cys Asp
485 490 495
Thr Leu Pro Thr Ile Arg Gln Ala Ala Ala Ser Ser Thr Ile Gly Leu
500 505 510
Phe Tyr Ile Lys Gly Ile His Leu Glu Val Glu Arg Leu Gln Gly Leu
515 520 525
Gln Glu Gly Leu Glu Ser Asp Asp Val Gln Val Gln Ile Lys Ile Ser
530 535 540
Ser Lys Ile Ala Lys Ile Val Ser Lys Phe Ile Pro Asn Glu Glu Ile
545 550 555 560
Leu Met Phe Leu Glu Glu Met Leu Asp Gly Leu Glu Ser Leu Asn Pro
565 570 575
Thr Cys Thr Lys Ala Cys Gly Ile Trp Met Ile Thr Val Leu Lys Gln
580 585 590
Gln Gly Ala Ala Leu Glu Asp Gln Leu Leu Glu Ile Leu Gly Thr Ile
595 600 605
Tyr His His Met Pro Val Leu Arg Gln Lys Glu Glu Ser Phe Gln Phe
610 615 620
Ile Leu Glu Ala Ile Ser Gln Ile Ala Ser Phe His Met Asp Thr Val
625 630 635 640
Val Val Asn Leu Leu Gln Lys Pro Leu Pro Phe Asp Arg Asp Thr Lys
645 650 655
Thr Leu Trp Lys Ala Leu Ala Glu Lys Pro Ala Ser Ser Gly Lys Leu
660 665 670
Leu Gln Ala Leu Ile Asp Lys Leu Glu Thr Glu Leu Glu Asp Asp Ile
675 680 685
Ala Arg Val Glu Ala Ile Ser Val Ala Cys Ala Met Tyr Glu Val Ile

690	695	700
Ser Met Gly Thr Ser Val Thr Gly Leu Tyr Pro Glu Leu Phe Thr Leu		
705	710	715
Leu Leu Lys Leu Val Ser Cys Thr Leu Gly Gln Lys Met Pro Thr Cys		
725	730	735
Pro Trp Ser His Arg Arg His Val Met Gln Gln Gly Glu Gln Gln Gln		
740	745	750
Ile Pro Asp Pro Cys Arg Leu Ser Thr Ala Thr Leu Lys Cys Leu Gln		
755	760	765
Ala Gln Ala Met Arg Glu Gly Leu Ala Lys Glu Ser Asp Glu Gly Asp		
770	775	780
Asn Leu Trp Thr Leu Leu Ser Ser Pro Ser Thr His His Ile Gly Val		
785	790	795
Cys Ser Leu Ala Arg Ser Met Ala Val Trp Gln His Gly Val Ile Leu		
805	810	815
Asp Ile Met Glu Gln Leu Leu Ser Ser Leu Thr Ser Ser Ser Glu Asn		
820	825	830
Tyr Arg Ile Thr Gly Ala Ala Phe Phe Ser Glu Leu Met Lys Glu Pro		
835	840	845
Ile Leu Trp Lys His Gly Asn Leu Arg Asn Val Leu Ile Leu Met Asp		
850	855	860
Gln Ser Ala Trp Asp Ser Asn Ala Thr Leu Arg Gln Met Ala Ile Arg		
865	870	875
Gly Leu Gly Asn Thr Ala Ser Gly Ala Pro His Lys Val Lys Lys His		
885	890	895
Lys Gln Leu Met Leu Glu Ser Ile Ile Arg Gly Leu Tyr His Leu Ala		
900	905	910
Arg Thr Glu Val Val Cys Glu Ser Leu Lys Ala Leu Lys Lys Ile Leu		
915	920	925

Glu Leu Leu Thr Asp Arg Asp Val Ser Phe Tyr Phe Lys Glu Ile Val
930 935 940

Leu Gln Thr Arg Thr Phe Phe Glu Asp Glu Gln Asp Asp Val Arg Leu
945 950 955 960

Thr Ala Ile Phe Leu Phe Glu Asp Leu Ala Pro Leu Thr Gly Arg Arg
965 970 975

Trp Lys Ile Phe Phe Ala Glu Glu Ile Lys Lys Ser Leu Ile Ser Phe
980 985 990

Leu Leu His Leu Trp Asp Pro Asn Pro Lys Ile Gly Val Ala Cys Arg
995 1000 1005

Asp Val Leu Met Val Cys Ile Pro Phe Leu Gly Leu Gln Glu Leu Tyr
1010 1015 1020

Gly Val Leu Asp Arg Leu Leu Asp Gln Asp Leu Pro Arg Ala Arg Asp
1025 1030 1035 1040

Phe Tyr Arg Gln Phe Cys Val Lys Leu Ala Lys Lys Asn Gln Glu Ile
1045 1050 1055

Leu Trp Ile Leu His Thr His Ser Phe Thr Phe Phe Thr Ser Thr Trp
1060 1065 1070

Glu Val Ile Arg Ser Ala Ala Val Lys Leu Thr Asp Ala Val Val Leu
1075 1080 1085

Asn Leu Thr Ser Gln Tyr Val Glu Leu Leu Asp Arg Glu Gln Leu Thr
1090 1095 1100

Thr Arg Leu Gln Ala Leu Arg Gln Asp Pro Cys Ile Ser Val Gln Arg
1105 1110 1115 1120

Ala Ala Glu Ala Ala Leu Gln Thr Leu Leu Arg Arg Cys Lys Glu Thr
1125 1130 1135

Ser Ile Pro Leu
1140

<210> 3405

<211> 126

<212> PRT

<213> Homo sapiens

<400> 3405

Met Ala Glu Thr Glu Arg Asn Asp Glu Glu Gln Phe Glu Cys Gln Glu

1 5 10 15

Leu Leu Glu Cys Gln Val Gln Val Glu Ala Glu Ala Val Ala Ala Gly

20 25 30

Trp Met Leu Asp Phe Leu Cys Leu Ser Leu Cys Arg Ala Phe Arg Asp

35 40 45

Gly Arg Ser Glu Asp Phe Arg Arg Thr Arg Asn Ser Ala Glu Gly Glu

50 55 60

Cys Arg Pro Arg Pro Gly Arg Asp Tyr Ala Gly Gly Gly Cys Gly Leu

65 70 75 80

Arg Gly Ala Arg Gln Arg Ala Gly Ser Leu Arg Arg Arg Gly Arg Ser

85 90 95

Gly Glu Arg Gly Cys Cys Gly Arg Leu Ala Gly Ser Pro Arg Leu Arg

100 105 110

Ala Glu Leu Cys Ser Asn Pro Gly Ser Pro Val Val Ser Thr

115 120 125

<210> 3406

<211> 385

<212> PRT

<213> Homo sapiens

<400> 3406

Met Val Ala Val Ser Ser Glu Leu Leu Gly Thr Leu Pro Arg Trp Gly
1 5 10 15
Gly Leu Ala Glu Ala Leu Leu Thr Ser Gln Met Gly Arg Pro Gly Arg
20 25 30
Gly Ala Pro His Leu Pro Asp Gly Ala Ala Trp Gln Arg Arg Ser Ser
35 40 45
Pro Pro Arg Arg Gly Gly Arg Ala Glu Ala Leu Pro Thr Ser Gln Met
50 55 60
Gly Arg Pro Gly Arg Gly Ala Pro His Leu Pro Asp Asp Gly Arg Ser
65 70 75 80
Gly Arg Gly Ala Pro His Leu Pro Asp Glu Gly Arg Pro Gly Arg Gly
85 90 95
Ala Pro His Leu Pro Gly Gly Ala Ala Gly Gln Arg Arg Pro Ser Pro
100 105 110
Pro Arg Arg Gly Gly Arg Ala Glu Ala Pro Leu Thr Ser Gln Ala Gly
115 120 125
Arg Pro Gly Arg Gly Ala Pro His Leu Pro Asp Gly Ala Ala Gly Gln
130 135 140
Arg Leu Pro Gln Pro Pro Arg Gly Arg Ala Ala Gly Gln Arg Ser Pro
145 150 155 160
Ser Pro Pro Arg Gln Gly Gly Arg Ala Glu Ala Leu Leu Thr Ser Gln
165 170 175
Thr Gly Arg Pro Gly Arg Gly Ser Pro Asn Leu Pro Asp Glu Gly Arg
180 185 190
Pro Gly Arg Gly Ala Pro His Leu Pro Gly Arg Ala Ala Gly Gln Arg
195 200 205
Arg Ser Ser Pro Pro Arg Arg Gly Gly Arg Ala Glu Ala Leu Leu Thr

210	215	220
Ser Gln Thr Met Gly Gly Arg Ala Glu Ala Leu Leu Thr Ser Gln Thr		
225	230	235
Gly Gln Leu Gly Arg Gly Ala Pro His Phe Pro Asp Gly Ala Ala Gly		
245	250	255
Gln Arg Arg Ser Ser His Pro Arg Arg Trp Ala Ala Arg Gln Arg Arg		
260	265	270
Ser Ser His Pro Arg Arg Trp Ala Ala Gly Gln Arg Arg Ser Ser Pro		
275	280	285
Pro Arg Arg Gly Gly Arg Ala Glu Ala Leu Leu Ala Ser Gln Thr Gly		
290	295	300
Trp Trp Pro Gly Arg Asp Ala Pro Arg Leu Gln Asp Gly Val Ala Ala		
305	310	315
Gly His Arg Cys Ser Ser Pro Pro Arg Arg Gly Gly Gly Ala Glu Ala		
325	330	335
Leu Leu Thr Ser Gln Thr Glu Gln Pro Gly Arg Gly Ala Pro His Phe		
340	345	350
Pro Asp Val Ser Val Arg Gln Arg Arg Ser Ser His Pro Arg Arg Trp		
355	360	365
Ala Ala Glu Gln Arg His Ser Ser His Pro Arg Arg Trp Ala Ala Arg		
370	375	380
Gln		
385		

<210> 3407

<211> 412

<212> PRT

<213> Homo sapiens

<400> 3407

Met Lys Arg His Glu Met Val Ala Lys Pro Pro Ala Met Cys Ser His
 1 5 10 15
 Phe Ala Lys Asp Leu Arg Pro Glu Gln Tyr Ile Lys Asn Ser Phe Gln
 20 25 30
 Gln Val Ile Leu Arg Arg Tyr Gly Lys Cys Gly Tyr Gln Lys Gly Cys
 35 40 45
 Lys Ser Val Asp Glu His Lys Leu His Thr Gly Gly His Lys Gly Leu
 50 55 60
 Asn Arg Cys Val Thr Thr Thr Gln Ser Lys Ile Val Gln Cys Asp Lys
 65 70 75 80
 Tyr Val Lys Val Phe His Lys Tyr Ser Asn Ala Lys Arg His Lys Ile
 85 90 95
 Arg His Thr Gly Lys Asn Pro Phe Lys Cys Lys Glu Cys Gly Lys Ser
 100 105 110
 Phe Cys Met Leu Ser Gln Leu Thr Gln His Glu Ile Ile His Thr Gly
 115 120 125
 Glu Lys Pro Tyr Lys Cys Glu Glu Cys Gly Lys Ala Phe Lys Lys Ser
 130 135 140
 Ser Asn Leu Thr Asn His Lys Ile Ile His Thr Gly Glu Lys Pro Tyr
 145 150 155 160
 Lys Cys Glu Glu Cys Gly Lys Ala Phe Asn Gln Ser Ser Thr Leu Thr
 165 170 175
 Arg His Lys Ile Ile His Thr Gly Glu Lys Leu Tyr Lys Cys Glu Glu
 180 185 190
 Cys Gly Lys Ala Phe Asn Arg Ser Ser Asn Leu Thr Lys His Lys Ile
 195 200 205
 Val His Thr Gly Glu Lys Pro Tyr Lys Cys Glu Glu Cys Gly Lys Ala

210	215	220
Phe Lys Gln Ser Ser Asn Leu Thr Asn His Lys Lys Ile His Thr Gly		
225	230	235
Glu Lys Pro Tyr Lys Cys Gly Glu Cys Gly Lys Ala Phe Thr Leu Ser		
245	250	255
Ser His Leu Thr Thr His Lys Arg Ile His Thr Gly Glu Lys Pro Tyr		
260	265	270
Lys Cys Glu Glu Cys Gly Lys Ala Phe Ser Val Phe Ser Thr Leu Thr		
275	280	285
Lys His Lys Ile Ile His Thr Glu Glu Lys Pro Tyr Lys Cys Glu Glu		
290	295	300
Cys Gly Lys Ala Phe Asn Arg Ser Ser His Leu Thr Asn His Lys Val		
305	310	315
Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Glu Glu Cys Gly Lys Ala		
325	330	335
Phe Thr Lys Ser Ser Thr Leu Thr Tyr His Lys Val Ile His Thr Gly		
340	345	350
Lys Lys Pro Tyr Lys Cys Glu Glu Cys Gly Lys Ala Phe Ser Ile Phe		
355	360	365
Ser Ile Leu Thr Lys His Lys Val Ile His Thr Glu Asp Lys Pro Tyr		
370	375	380
Lys Cys Glu Glu Cys Gly Lys Thr Phe Asn Tyr Ser Ser Asn Phe Thr		
385	390	395
Asn His Lys Lys Asn Ser Tyr Trp Arg Glu Thr Leu		
405	410	

<210> 3408

<211> 194

<212> PRT

<213> Homo sapiens

<400> 3408

Met Pro Ala Pro His Phe Leu Tyr Ser Leu Arg Asn Tyr Glu Pro Met

1 5 10 15

Lys Pro Leu Phe Phe Ile Asn Tyr Pro Val Ser Asp Met Glu Leu Pro

20 25 30

Val Arg Ser Ser Thr Val Thr Leu Leu Pro Ala Pro Leu Pro Arg Arg

35 40 45

Gly Ser Val Lys Thr Phe Leu Ala Pro Ser Lys Ser Tyr Phe Pro Glu

50 55 60

Glu Glu Arg Ala Leu Leu Lys Ser Ser His Ala Phe Cys Thr Gly Leu

65 70 75 80

Trp Pro Trp Arg Arg Asp Phe Gln Leu Pro Gln Cys His Leu Ala Leu

85 90 95

Gly Leu Leu Pro Gly Glu Arg Ser Val Arg Leu Pro Arg Phe Leu Ala

100 105 110

Val Leu Lys Glu Leu Ser Ala Thr Ala Ser Phe Thr Leu Ala Ser Glu

115 120 125

Ala Ile Pro Phe Leu Ser Ser Phe Pro Phe Pro Trp Asn Leu Leu Leu

130 135 140

Pro Ser Val Phe Gln Ala Leu Pro Gln Lys Trp Gln Phe Lys Ala Asp

145 150 155 160

Phe Leu Leu Glu Cys Thr Leu Ser Val Lys Glu Ala Phe His Gln Glu

165 170 175

Cys Gly Ala Gly Val Ser Leu Ala Asn Gly Leu Asn Lys Gly Leu Arg

180 185 190

Thr Gly

<210> 3409

<211> 664

<212> PRT

<213> Homo sapiens

<400> 3409

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Met Thr Glu Lys Thr Asn Gly Val Lys Ser Ser Pro Ala Asn Asn His
  1           5           10           15
Asn His His Ala Pro Pro Ala Ile Lys Ala Asn Gly Lys Asp Asp His
          20           25           30
Arg Thr Ser Ser Arg Pro His Ser Ala Ala Asp Asp Asp Thr Ser Ser
      35           40           45
Glu Leu Gln Arg Leu Ala Asp Val Asp Ala Pro Gln Gln Gly Arg Ser
      50           55           60
Gly Phe Arg Arg Ile Val Arg Leu Val Gly Ile Ile Arg Glu Trp Ser
      65           70           75           80
Asn Lys Asn Phe Arg Glu Glu Glu Pro Arg Pro Asp Ser Phe Leu Glu
          85           90           95
Arg Phe Arg Gly Pro Glu Leu Gln Thr Val Thr Thr Gln Glu Gly Asp
      100           105           110
Gly Lys Gly Asp Lys Asp Gly Glu Asp Lys Gly Thr Lys Lys Lys Phe
      115           120           125
Glu Leu Phe Val Leu Asp Pro Ala Gly Asp Trp Tyr Tyr Cys Trp Leu
      130           135           140
Phe Val Ile Ala Met Pro Val Leu Tyr Asn Trp Cys Leu Leu Val Ala
      145           150           155           160

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Arg Ala Cys Phe Ser Asp Leu Gln Lys Gly Tyr Tyr Leu Val Trp Leu
 165 170 175
 Val Leu Asp Tyr Val Ser Asp Val Val Tyr Ile Ala Asp Leu Phe Ile
 180 185 190
 Arg Leu Arg Thr Gly Phe Leu Glu Gln Gly Leu Leu Val Lys Asp Thr
 195 200 205
 Lys Lys Leu Arg Asp Asn Tyr Ile His Thr Leu Gln Phe Lys Leu Asp
 210 215 220
 Val Ala Ser Ile Ile Pro Thr Asp Leu Ile Tyr Phe Ala Val Asp Ile
 225 230 235 240
 His Ser Pro Glu Val Arg Phe Asn Arg Leu Leu His Phe Ala Arg Met
 245 250 255
 Phe Glu Phe Phe Asp Arg Thr Glu Thr Arg Thr Asn Tyr Pro Asn Ile
 260 265 270
 Phe Arg Ile Ser Asn Leu Val Leu Tyr Ile Leu Val Ile Ile His Trp
 275 280 285
 Asn Ala Cys Ile Tyr Tyr Ala Ile Ser Lys Ser Ile Gly Phe Gly Val
 290 295 300
 Asp Thr Trp Val Tyr Pro Asn Ile Thr Asp Pro Glu Tyr Gly Tyr Leu
 305 310 315 320
 Ala Arg Glu Tyr Ile Tyr Cys Leu Tyr Trp Ser Thr Leu Thr Leu Thr
 325 330 335
 Thr Ile Gly Glu Thr Pro Pro Pro Val Lys Asp Glu Glu Tyr Leu Phe
 340 345 350
 Val Ile Phe Asp Phe Leu Ile Gly Val Leu Ile Phe Ala Thr Ile Val
 355 360 365
 Gly Asn Val Gly Ser Met Ile Ser Asn Met Asn Ala Thr Arg Ala Glu
 370 375 380
 Phe Gln Ala Lys Ile Asp Ala Val Lys His Tyr Met Gln Phe Arg Lys

385	390	395	400
Val Ser Lys Gly Met Glu Ala Lys Val Ile Arg Trp Phe Asp Tyr Leu			
405	410	415	
Trp Thr Asn Lys Lys Thr Val Asp Glu Arg Glu Ile Leu Lys Asn Leu			
420	425	430	
Pro Ala Lys Leu Arg Ala Glu Ile Ala Ile Asn Val His Leu Ser Thr			
435	440	445	
Leu Lys Lys Val Arg Ile Phe His Asp Cys Glu Ala Gly Leu Leu Val			
450	455	460	
Glu Leu Val Leu Lys Leu Arg Pro Gln Val Phe Ser Pro Gly Asp Tyr			
465	470	475	480
Ile Cys Arg Lys Gly Asp Ile Gly Lys Glu Met Tyr Ile Ile Lys Glu			
485	490	495	
Gly Lys Leu Ala Val Val Ala Asp Asp Gly Val Thr Gln Tyr Ala Leu			
500	505	510	
Leu Ser Ala Gly Ser Cys Phe Gly Glu Ile Ser Ile Leu Asn Ile Lys			
515	520	525	
Gly Ser Lys Met Gly Asn Arg Arg Thr Ala Asn Ile Arg Ser Leu Gly			
530	535	540	
Tyr Ser Asp Leu Phe Cys Leu Ser Lys Asp Asp Leu Met Glu Ala Val			
545	550	555	560
Thr Glu Tyr Pro Asp Ala Lys Lys Val Leu Glu Glu Arg Gly Arg Glu			
565	570	575	
Ile Leu Met Lys Glu Gly Leu Leu Asp Glu Asn Glu Val Ala Thr Ser			
580	585	590	
Met Glu Val Asp Val Gln Glu Lys Leu Gly Gln Leu Glu Thr Asn Met			
595	600	605	
Glu Thr Leu Tyr Thr Arg Phe Gly Arg Leu Leu Ala Glu Tyr Thr Gly			
610	615	620	

出証特 2 0 0 4 - 3 0 5 9 6 6 1

115	120	125
Ser His Ile Ser Arg Leu Val Arg Ser Leu Ser Leu Leu Leu Lys Gly		
130	135	140
Val His Gly Leu Val Gln Gly Asp Glu Lys Pro Ser Thr Arg Pro Leu		
145	150	155
Gln Asp Thr Cys Arg Glu Ala Ser Ala Ser Pro Pro Arg Ser Glu Ala		
165	170	175
Gln Arg Gln Ile Gln Glu Trp Gly Val Ser Val Arg Thr Leu Arg Gly		
180	185	190
Asn Phe Glu Ser Ala Ser Gly Pro Leu Cys Gly Phe Asn Pro Gly Pro		
195	200	205
Cys Glu Pro Gly Ala Gln His Arg Gln Cys Leu Ser Gly Cys Trp Pro		
210	215	220
Ala Leu Pro Lys Pro Arg Ser Gly Leu Ala Ser Gly Glu Pro Arg Pro		
225	230	235
Gly Asp Thr Glu Glu Ala Ser Asp Ser Gly Ile Ser Cys Glu Glu Val		
245	250	255
Pro Ser Glu Ala Gly Ala Ala Ala Gly Pro Asp Leu Ala Ser Leu Arg		
260	265	270
Lys Glu Arg Ile Ile Met Leu Phe Leu Ser His Trp Arg Arg Ser Ala		
275	280	285
Tyr Thr Pro Ala Leu Lys Thr Val Ala Cys Arg Thr Leu Gly Ala Arg		
290	295	300
His Ala Gly Leu Arg Gly Gln Glu Ala Ala Arg Ser Pro Gly Pro Pro		
305	310	315
Ser Pro Pro Ser Glu Gly Pro Arg Leu Gly His Leu Trp Gln Gln Arg		
325	330	335
Ser Thr Ile Thr His Leu Leu Gly Asn Trp Lys Ala Ile Met Ala His		
340	345	350

Val Pro Ala Arg Gln Leu Arg Arg Leu Ser Arg Gln Pro Arg Gly Ala
355 360 365
Leu Ser Pro Glu Gln Phe Leu Pro His Val Asp Gly Ala Pro Val Pro
370 375 380
Tyr Ser Ser Leu Ser Leu Asp Leu Phe Met Leu Gly Tyr Phe Gln Leu
385 390 395 400
Leu Glu Cys Asp Leu Pro Ala Glu Glu Arg Lys Leu Arg His Leu Leu
405 410 415
Cys Phe Glu Val Phe Glu His Leu Gly Thr His Gly Trp Glu Ala Val
420 425 430
Arg Ala Phe His Lys Ala Val Thr Asp Glu Val Ala Ala Gly Arg Arg
435 440 445
Ala Trp Thr Asp Gly Phe Glu Asp Ile Lys Ala Arg Phe Phe Gly Ser
450 455 460
Ser Gln Arg Pro Ala Trp Asp Thr Glu Pro Gly Arg Lys Ser Gly Leu
465 470 475 480
Thr Leu Leu Gly Pro Leu Pro His Ala Ala Val Pro Cys Ser Gly Pro
485 490 495
Glu Pro Thr Ala Gln Arg Leu Gly Ser Arg Ser Gln Gln Gly Ser Phe
500 505 510
Asn Gly Glu Asp Ile Cys Gly Tyr Ile Asn Arg Ser Phe Ala Phe Trp
515 520 525
Lys Glu Lys Glu Ala Glu Met Phe Asn Phe Gly Glu
530 535 540

<210> 3411

<211> 183

<212> PRT

<213> Homo sapiens

<400> 3411

Met Arg Arg Asn Gln Lys Ala Asn Ser Gly Asn Met Thr Lys Gln Gly
 1 5 10 15
 Ser Leu Thr Pro Ser Lys His His Thr Ser Ser Leu Ala Met Asp Pro
 20 25 30
 Asn Lys Glu Glu Ile Pro Asp Leu Pro Glu Lys Glu Phe Arg Leu Val
 35 40 45
 Ile Lys Leu Met Arg Glu Ala Thr Glu Lys Gly Lys Ala Gln Cys Lys
 50 55 60
 Gly Ile Lys Lys Asn Asp Ile Arg Ser Glu Gly Lys Asn Ile Gln Arg
 65 70 75 80
 Asn Ser Ile Asn Lys Lys Ser Lys Leu Gln Lys Thr Met Gly Thr Leu
 85 90 95
 Thr Glu Met Gln Asn Ala Leu Glu Asn Leu Ser Lys Ile Ser Gly Pro
 100 105 110
 Gly Arg Leu Val Ser Arg Cys Gln Arg Asp Leu Val Gly Cys His Gln
 115 120 125
 Val Gly Leu Pro Leu Asn Leu Cys Lys Arg Asp Thr Asn Leu Val Ser
 130 135 140
 Ser Phe Ser Lys Glu His Ile Gly Pro Gln Leu Ala Leu Thr His Lys
 145 150 155 160
 His His Leu Leu Val Phe Arg Pro Asp Cys Thr Ala Gln Tyr Lys Thr
 165 170 175
 Cys Leu Gly Lys Cys Ile Ala
 180

<210> 3412

<211> 210

<212> PRT

<213> Homo sapiens

<400> 3412

Met Pro Val Ser Pro Ala Pro Val Ala Val Ser Leu Val Pro Ala Pro

1 5 10 15

Ala Thr Ala Pro Ala Pro Arg Pro Leu Gly Ser Ile Gln Arg Pro Asn

20 25 30

Ser Phe Leu Phe Arg Ser Ser Ser Gln Ser Gly Ser Gly Pro Ser Ser

35 40 45

Pro Asp Ser Val Leu Arg Pro Arg Arg Tyr Pro Gln Val Pro Asp Glu

50 55 60

Lys Asp Leu Met Thr Gln Leu Arg Gln Val Leu Glu Ser Arg Leu Gln

65 70 75 80

Arg Pro Leu Pro Glu Asp Leu Ala Glu Ala Leu Ala Ser Gly Val Ile

85 90 95

Leu Cys Gln Leu Ala Asn Gln Leu Arg Pro Arg Ser Val Pro Phe Ile

100 105 110

His Val Pro Ser Pro Ala Val Pro Lys Leu Ser Ala Leu Lys Ala Arg

115 120 125

Lys Asn Val Glu Ser Phe Leu Glu Ala Cys Arg Lys Met Gly Val Pro

130 135 140

Glu Ala Asp Leu Cys Ser Pro Ser Asp Leu Leu Gln Gly Thr Ala Arg

145 150 155 160

Gly Leu Arg Thr Ala Leu Glu Ala Met Lys Arg Val Gly Gly Lys Ala

165 170 175

Leu Pro Pro Leu Trp Pro Pro Ser Gly Leu Gly Gly Phe Val Val Phe

180 185 190
 Tyr Val Val Leu Met Leu Leu Leu Tyr Val Thr Tyr Thr Arg Leu Leu
 195 200 205
 Gly Ser
 210

<210> 3413

<211> 799

<212> PRT

<213> Homo sapiens

<400> 3413

Met Leu Glu Glu Glu Thr Asp Gln Thr Tyr Glu Asn Val Leu Ala Glu
 1 5 10 15
 Ile Gln Ser Phe Glu Leu Pro Ile Glu Ala Thr Leu Arg Ser Val Tyr
 20 25 30
 Asp Asp Gln Pro Asn Ala His Lys Lys Phe Met Glu Lys Leu Asp Ala
 35 40 45
 Cys Ile Arg Asn His Asp Lys Glu Ile Glu Lys Met Cys Asn Phe His
 50 55 60
 His Gln Gly Phe Val Asp Ala Ile Thr Glu Leu Leu Lys Val Arg Thr
 65 70 75 80
 Asp Ala Glu Lys Leu Lys Val Gln Val Thr Asp Thr Asn Arg Arg Phe
 85 90 95
 Gln Asp Ala Gly Lys Glu Val Ile Val His Thr Glu Asp Ile Ile Arg
 100 105 110
 Cys Arg Ile Gln Gln Arg Asn Ile Thr Thr Val Val Glu Lys Leu Gln
 115 120 125

Leu Cys Leu Pro Val Leu Glu Met Tyr Ser Lys Leu Lys Glu Gln Met
130 135 140
Ser Ala Lys Arg Tyr Tyr Ser Ala Leu Lys Thr Met Glu Gln Leu Glu
145 150 155 160
Asn Val Tyr Phe Pro Trp Val Ser Gln Tyr Arg Phe Cys Gln Leu Met
165 170 175
Ile Glu Asn Leu Pro Lys Leu Arg Glu Asp Ile Lys Glu Ile Ser Met
180 185 190
Ser Asp Leu Lys Asp Phe Leu Glu Ser Ile Arg Lys His Ser Asp Lys
195 200 205
Ile Gly Glu Thr Ala Met Lys Gln Ala Gln His Gln Lys Thr Phe Ser
210 215 220
Val Ser Leu Gln Lys Gln Asn Lys Met Lys Phe Gly Lys Asn Met Tyr
225 230 235 240
Ile Asn Arg Asp Arg Ile Pro Glu Glu Arg Asn Glu Thr Val Leu Lys
245 250 255
His Ser Leu Glu Glu Glu Asp Glu Asn Glu Glu Glu Ile Leu Thr Val
260 265 270
Gln Asp Leu Val Asp Phe Ser Pro Val Tyr Arg Cys Leu His Ile Tyr
275 280 285
Ser Val Leu Gly Asp Glu Glu Thr Phe Glu Asn Tyr Tyr Arg Lys Gln
290 295 300
Arg Lys Lys Gln Ala Arg Leu Val Leu Gln Pro Gln Ser Asn Met His
305 310 315 320
Glu Thr Val Asp Gly Tyr Arg Arg Tyr Phe Thr Gln Ile Val Gly Phe
325 330 335
Phe Val Val Glu Asp His Ile Leu His Val Thr Gln Gly Leu Val Thr
340 345 350
Arg Ala Tyr Thr Asp Glu Leu Trp Asn Met Ala Leu Ser Lys Ile Ile

355 360 365
Ala Val Leu Arg Ala His Ser Ser Tyr Cys Thr Asp Pro Asp Leu Val
370 375 380
Leu Glu Leu Lys Asn Leu Ile Val Ile Phe Ala Asp Thr Leu Gln Gly
385 390 395 400
Tyr Gly Phe Pro Val Asn Arg Leu Phe Asp Leu Leu Phe Glu Ile Arg
405 410 415
Asp Gln Tyr Asn Glu Thr Leu Leu Lys Lys Trp Ala Gly Val Phe Arg
420 425 430
Asp Ile Phe Glu Glu Asp Asn Tyr Ser Pro Ile Pro Val Val Asn Glu
435 440 445
Glu Glu Tyr Lys Ile Val Ile Ser Lys Phe Pro Phe Gln Asp Pro Asp
450 455 460
Leu Glu Lys Gln Ser Phe Pro Lys Lys Phe Pro Met Ser Gln Ser Val
465 470 475 480
Pro His Ile Tyr Ile Gln Val Lys Glu Phe Ile Tyr Ala Ser Leu Lys
485 490 495
Phe Ser Glu Ser Leu His Arg Ser Ser Thr Glu Ile Asp Asp Met Leu
500 505 510
Arg Lys Ser Thr Asn Leu Leu Leu Thr Arg Thr Leu Ser Ser Cys Leu
515 520 525
Leu Asn Leu Ile Arg Lys Pro His Ile Gly Leu Thr Glu Leu Val Gln
530 535 540
Ile Ile Ile Asn Thr Thr His Leu Glu Gln Ala Cys Lys Tyr Leu Glu
545 550 555 560
Asp Phe Ile Thr Asn Ile Thr Asn Ile Ser Gln Glu Thr Val His Thr
565 570 575
Thr Arg Leu Tyr Gly Leu Ser Thr Phe Lys Asp Ala Arg His Ala Ala
580 585 590

Glu Gly Glu Ile Tyr Thr Lys Leu Asn Gln Lys Ile Asp Glu Phe Val
595 600 605
Gln Leu Ala Asp Tyr Asp Trp Thr Met Ser Glu Pro Asp Gly Arg Ala
610 615 620
Ser Gly Tyr Leu Met Asp Leu Ile Asn Phe Leu Arg Ser Ile Phe Gln
625 630 635 640
Val Phe Thr His Leu Pro Gly Lys Val Ala Gln Thr Ala Cys Met Ser
645 650 655
Ala Cys Gln His Leu Ser Thr Ser Leu Met Gln Met Leu Leu Asp Ser
660 665 670
Glu Leu Lys Gln Ile Ser Met Gly Ala Val Gln Gln Phe Asn Leu Asp
675 680 685
Val Ile Gln Cys Glu Leu Phe Ala Ser Ser Glu Pro Val Pro Gly Phe
690 695 700
Gln Gly Asp Thr Leu Gln Leu Ala Phe Ile Asp Leu Arg Gln Leu Leu
705 710 715 720
Asp Leu Phe Met Val Trp Asp Trp Ser Thr Tyr Leu Ala Asp Tyr Gly
725 730 735
Gln Pro Ala Ser Lys Tyr Leu Arg Val Asn Pro Asn Thr Ala Leu Thr
740 745 750
Leu Leu Glu Lys Met Lys Asp Thr Ser Lys Lys Asn Asn Ile Phe Ala
755 760 765
Gln Phe Arg Lys Asn Asp Arg Asp Lys Gln Lys Leu Ile Glu Thr Val
770 775 780
Val Lys Gln Leu Arg Ser Leu Val Asn Gly Met Ser Gln His Met
785 790 795

<210> 3414

<211> 455

<212> PRT

<213> Homo sapiens

<400> 3414

Met Gly Lys Leu Val Thr Arg Arg Leu Leu Gly Arg Arg Gly Ser Val

1 5 10 15

Ala Phe Pro Gly Gln Lys Gly Lys Cys Gly Val Pro Trp Arg Glu Gly

20 25 30

Arg Val Trp Arg Pro Leu Glu Arg Arg Ala Ser Val Ala Ser Pro Gly

35 40 45

Gln Lys Gly Glu Cys Gly Val Pro Trp Arg Glu Gly Pro Val Trp Arg

50 55 60

Pro Leu Glu Arg Arg Gly Ser Val Ala Ser Pro Gly Glu Lys Gly Glu

65 70 75 80

Cys Gly Val Pro Trp Arg Glu Gly Gly Val Trp Arg Pro Leu Glu Arg

85 90 95

Arg Gly Ser Val Ala Ser Pro Gly Glu Lys Gly Glu Cys Gly Val Pro

100 105 110

Trp Arg Glu Gly Gly Val Trp Arg Pro Leu Glu Arg Arg Gly Ser Val

115 120 125

Ala Ser Pro Gly Glu Lys Gly Glu Cys Gly Val Pro Trp Arg Glu Gly

130 135 140

Gly Val Trp Arg Pro Leu Glu Arg Arg Ala Ser Val Ala Ser Pro Gly

145 150 155 160

Gln Lys Gly Glu Cys Gly Val Pro Trp Arg Glu Gly Pro Val Trp Arg

165 170 175

Pro Leu Glu Arg Arg Ala Ser Val Ala Ser Pro Gly Glu Lys Gly Glu

180 185 190

Cys Gly Val Pro Trp Arg Glu Gly Gly Val Trp Arg Pro Leu Glu Arg
 195 200 205
 Arg Gly Ser Val Ala Ser Pro Gly Glu Lys Gly Glu Cys Gly Val Pro
 210 215 220
 Trp Thr Glu Gly Gly Val Trp Arg Pro Leu Glu Arg Arg Ala Ser Val
 225 230 235 240
 Ala Ser Pro Gly Glu Lys Gly Glu Cys Gly Val Pro Trp Thr Glu Gly
 245 250 255
 Gly Val Trp Arg Pro Leu Glu Arg Arg Gly Ser Val Ala Ser Pro Gly
 260 265 270
 Glu Lys Gly Gln Cys Gly Val Pro Trp Thr Glu Gly Gly Val Trp Arg
 275 280 285
 Pro Leu Glu Arg Arg Ala Ser Val Ala Ser Pro Gly Gln Lys Gly Glu
 290 295 300
 Cys Gly Val Pro Trp Arg Glu Gly Arg Val Trp Arg Pro Leu Glu Arg
 305 310 315 320
 Arg Ala Ser Val Ala Ser Pro Gly Gln Lys Gly Glu Cys Gly Val Pro
 325 330 335
 Trp Arg Glu Gly Pro Val Trp Arg Pro Leu Glu Arg Arg Gly Ser Val
 340 345 350
 Ala Ser Pro Gly Glu Lys Gly Glu Cys Gly Val Pro Trp Arg Glu Gly
 355 360 365
 Gly Val Trp Arg Pro Leu Glu Arg Arg Gly Ser Val Ala Ser Pro Gly
 370 375 380
 Glu Lys Gly Glu Cys Gly Val Pro Trp Arg Glu Gly Gly Val Trp Arg
 385 390 395 400
 Pro Leu Asp Arg Arg Gly Ser Val Ala Ser Pro Gly Glu Lys Gly Glu
 405 410 415
 Cys Gly Val Arg Trp Arg Glu Gly Arg Val Trp Tyr Ser Leu Asp Arg

420 425 430
 Arg Gly Ser Val Pro Ala Ala Leu Ala Ser Gln Arg His Ala Leu Leu
 435 440 445
 Ala Leu Pro Gln Pro Gln Gly
 450 455

<210> 3415

<211> 844

<212> PRT

<213> Homo sapiens

<400> 3415

Met Gly Phe Gln Pro Asn Thr Ala Gly Ser Glu Cys Glu Asp Val Asp
 1 5 10 15
 Glu Cys Glu Asn His Leu Ala Cys Pro Gly Gln Glu Cys Val Asn Ser
 20 25 30
 Pro Gly Ser Phe Gln Cys Arg Thr Cys Pro Ser Gly His His Leu His
 35 40 45
 Arg Gly Arg Cys Thr Asp Val Asp Glu Cys Ser Ser Gly Ala Pro Pro
 50 55 60
 Cys Gly Pro His Gly His Cys Thr Asn Thr Glu Gly Ser Phe Arg Cys
 65 70 75 80
 Ser Cys Ala Pro Gly Tyr Arg Ala Pro Ser Gly Arg Pro Gly Pro Cys
 85 90 95
 Ala Asp Val Asn Glu Cys Leu Glu Gly Asp Phe Cys Phe Pro His Gly
 100 105 110
 Glu Cys Leu Asn Thr Asp Gly Ser Phe Ala Cys Thr Cys Ala Pro Gly
 115 120 125

Tyr Arg Pro Gly Pro Arg Gly Ala Ser Cys Leu Asp Val Asp Glu Cys
 130 135 140
 Ser Glu Glu Asp Leu Cys Gln Ser Gly Ile Cys Thr Asn Thr Asp Gly
 145 150 155 160
 Ser Phe Glu Cys Ile Cys Pro Pro Gly His Arg Ala Gly Pro Asp Leu
 165 170 175
 Ala Ser Cys Leu Asp Val Asp Glu Cys Arg Glu Arg Gly Pro Ala Leu
 180 185 190
 Cys Gly Ser Gln Arg Cys Glu Asn Ser Pro Gly Ser Tyr Arg Cys Val
 195 200 205
 Arg Asp Cys Asp Pro Gly Tyr His Ala Gly Pro Glu Gly Thr Cys Asp
 210 215 220
 Asp Val Asp Glu Cys Gln Glu Tyr Gly Pro Glu Ile Cys Gly Ala Gln
 225 230 235 240
 Arg Cys Glu Asn Thr Pro Gly Ser Tyr Arg Cys Thr Pro Ala Cys Asp
 245 250 255
 Pro Gly Tyr Gln Pro Thr Pro Gly Gly Gly Cys Gln Asp Val Asp Glu
 260 265 270
 Cys Arg Asn Arg Ser Phe Cys Gly Ala His Ala Val Cys Gln Asn Leu
 275 280 285
 Pro Gly Ser Phe Gln Cys Leu Cys Asp Gln Gly Tyr Glu Gly Ala Arg
 290 295 300
 Asp Gly Arg His Cys Val Asp Val Asn Glu Cys Glu Thr Leu Gln Gly
 305 310 315 320
 Val Cys Gly Ala Ala Leu Cys Glu Asn Val Glu Gly Ser Phe Leu Cys
 325 330 335
 Val Cys Pro Asn Ser Pro Glu Glu Phe Asp Pro Met Thr Gly Arg Cys
 340 345 350
 Val Pro Pro Arg Thr Ser Ala Gly Thr Phe Pro Gly Ser Gln Pro Gln

355	360	365
Ala Pro Ala Ser Pro Val Leu Pro Ala Arg Pro Pro Pro Pro Pro Leu		
370	375	380
Pro Arg Arg Pro Ser Thr Pro Arg Gln Gly Pro Val Gly Ser Gly Arg		
385	390	395
Arg Glu Cys Tyr Phe Asp Thr Ala Ala Pro Asp Ala Cys Asp Asn Ile		
405	410	415
Leu Ala Arg Asn Val Thr Trp Gln Glu Cys Cys Cys Thr Val Gly Glu		
420	425	430
Gly Trp Gly Ser Gly Cys Arg Ile Gln Gln Cys Pro Gly Thr Glu Thr		
435	440	445
Ala Glu Tyr Gln Ser Leu Cys Pro His Gly Arg Gly Tyr Leu Ala Pro		
450	455	460
Ser Gly Asp Leu Ser Leu Arg Arg Asp Val Asp Glu Cys Gln Leu Phe		
465	470	475
Arg Asp Gln Val Cys Lys Ser Gly Val Cys Val Asn Thr Ala Pro Gly		
485	490	495
Tyr Ser Cys Tyr Cys Ser Asn Gly Tyr Tyr Tyr His Thr Gln Arg Leu		
500	505	510
Glu Cys Ile Asp Asn Asp Glu Cys Ala Asp Glu Glu Pro Ala Cys Glu		
515	520	525
Gly Gly Arg Cys Val Asn Thr Val Gly Ser Tyr His Cys Thr Cys Glu		
530	535	540
Pro Pro Leu Val Leu Asp Gly Ser Gln Arg Arg Cys Val Ser Asn Glu		
545	550	555
Ser Gln Ser Leu Asp Asp Asn Leu Gly Val Cys Trp Gln Glu Val Gly		
565	570	575
Ala Asp Leu Val Cys Ser His Pro Arg Leu Asp Arg Gln Ala Thr Tyr		
580	585	590

Thr Glu Cys Cys Cys Leu Tyr Gly Glu Ala Trp Gly Met Asp Cys Ala
595 600 605

Leu Cys Pro Ala Gln Asp Ser Asp Asp Phe Glu Ala Leu Cys Asn Val
610 615 620

Leu Arg Pro Pro Ala Tyr Ser Pro Pro Arg Pro Gly Gly Phe Gly Leu
625 630 635 640

Pro Tyr Glu Tyr Gly Pro Asp Leu Gly Pro Pro Tyr Gln Gly Leu Pro
645 650 655

Tyr Gly Pro Glu Leu Tyr Pro Pro Pro Ala Leu Pro Tyr Asp Pro Tyr
660 665 670

Pro Pro Pro Pro Gly Pro Phe Ala Arg Arg Glu Ala Pro Tyr Gly Ala
675 680 685

Pro Arg Phe Asp Met Pro Asp Phe Glu Asp Asp Gly Gly Pro Tyr Gly
690 695 700

Glu Ser Glu Ala Pro Ala Pro Pro Gly Pro Gly Thr Arg Trp Pro Tyr
705 710 715 720

Arg Ser Arg Asp Thr Arg Arg Ser Phe Pro Glu Pro Glu Glu Pro Pro
725 730 735

Glu Gly Gly Ser Tyr Ala Gly Ser Leu Ala Glu Pro Tyr Glu Glu Leu
740 745 750

Glu Ala Glu Glu Cys Gly Ile Leu Asp Gly Cys Thr Asn Gly Arg Cys
755 760 765

Val Arg Val Pro Glu Gly Phe Thr Cys Arg Cys Phe Asp Gly Tyr Arg
770 775 780

Leu Asp Met Thr Arg Met Ala Cys Val Asp Ile Asn Glu Cys Asp Glu
785 790 795 800

Ala Glu Ala Ala Ser Pro Leu Cys Val Asn Ala Arg Cys Leu Asn Thr
805 810 815

Asp Gly Ser Phe Arg Cys Ile Cys Arg Pro Gly Phe Ala Pro Thr His

820 825 830
 Gln Pro His His Cys Ala Pro Ala Arg Pro Arg Ala
 835 840

<210> 3416

<211> 119

<212> PRT

<213> Homo sapiens

<400> 3416

Met Ser Val Ser Met Lys Met Val Ser Leu Cys Ile Gly His Cys Arg
 1 5 10 15
 Gly Glu Arg Lys Glu Leu Arg Gly Pro Cys Arg Thr Gln Pro Val Gly
 20 25 30
 Lys Gly Leu Pro Phe Ser Pro Ala Ser Arg Ser Pro Gly Val Trp Phe
 35 40 45
 Pro Val Leu Asn His Leu His Gln Pro Gly Leu Cys Ser Asn Cys Gly
 50 55 60
 Ala Gln Arg Arg Arg Gly Pro Ala Ser Pro Pro Ser Leu His Val Gln
 65 70 75 80
 Val Arg Cys Leu Arg Pro Arg Glu Thr Ala Trp Ser Pro Pro Thr Val
 85 90 95
 Pro Thr Gly Ala Arg Pro Gln Thr Arg Ser Ser Ser Val Ser Ala Gly
 100 105 110
 Ser Glu Ala Val Arg Ser Phe
 115

<210> 3417

<211> 105

<212> PRT

<213> Homo sapiens

<400> 3417

Met Thr Ser Leu Glu Met Val Ser Trp Glu Arg Ser Pro Pro Gly Gln

1 5 10 15

Arg Ile Pro Leu Thr Trp Gly Leu Thr Ser Arg Pro Gly His Phe Pro

20 25 30

Gly Pro Pro Val Leu Pro Asp Leu Ser Val Ser Val Cys Lys Met Gly

35 40 45

Ile Thr Arg Ala Ser Leu Cys Gly Pro Gly Glu Ser Gly Thr Glu Gly

50 55 60

Arg Pro Gly Val Gln Gln Gly Pro Ala Pro Thr Pro Ala Pro Pro Ser

65 70 75 80

Pro Ala Pro Ser Pro Arg Ser Cys Thr Leu His Ser Pro Cys Leu Gln

85 90 95

Ser Leu Cys Pro Val Pro Thr Pro Gly

100 105

<210> 3418

<211> 1576

<212> PRT

<213> Homo sapiens

<400> 3418

Met Glu Asn Ile Leu Cys Phe Leu Asn Ser Tyr Thr Glu Thr Gly Leu

1	5	10	15
Ser Pro Asp Ser His Trp Leu Asp Ile Asp Pro Asn Phe Ile Cys Leu			
20	25	30	
Ser Gly Leu Gly Leu Phe Ile Leu Tyr Leu Phe Tyr Val Val Leu Thr			
35	40	45	
Leu Tyr Ser Ser Pro Thr Glu Lys Asn Asn Asp Ile Gln Lys His Gln			
50	55	60	
Gly Arg Ala Lys Arg Arg Arg Lys Gly Gly Thr Phe Lys Gly Phe Pro			
65	70	75	80
Asp Trp Lys Ser Phe Gln Arg Glu Glu Glu Glu Glu Arg Lys Leu Leu			
85	90	95	
Ser Leu Leu Lys Ser Phe Gly Pro Pro Val Ser Cys Ser Pro Arg Gly			
100	105	110	
Gln His His Asp Thr Asn His Phe Arg Arg Leu Leu Cys Pro Asp Pro			
115	120	125	
Val Cys Arg Val Cys Lys Arg Ala Thr Ala Asp Ile Gln Gln Leu Leu			
130	135	140	
Ser Trp Glu Ser Leu Lys Asp Ala Ala Pro Ser Val Ser Pro Leu Ala			
145	150	155	160
Ser Ser Ala Ser Ala Thr Glu Ser Ser Phe Thr Leu Ala Ser Thr Pro			
165	170	175	
Ser Ala Thr Pro Pro Glu Asp Leu Ile Leu Ser Pro Arg Pro Lys Ala			
180	185	190	
Ser Pro Pro Pro Pro Leu Ile Leu Ser Pro Asp Leu Ile Thr Thr Leu			
195	200	205	
Ala Asp Leu Phe Ser Pro Ser Pro Leu Arg Asp Pro Leu Pro Pro Gln			
210	215	220	
Pro Val Ser Pro Leu Asp Ser Lys Phe Pro Ile Asp His Ser Pro Pro			
225	230	235	240

Gln Gln Leu Pro Phe Pro Leu Leu Pro Pro His His Ile Glu Arg Val
 245 250 255
 Glu Ser Ser Leu Gln Pro Glu Ala Ser Leu Ser Leu Asn Thr Ile Phe
 260 265 270
 Ser Phe Gly Ser Thr Leu Cys Gln Asp Ile Ser Gln Ala Met Asn Pro
 275 280 285
 Ile Asp Ser Cys Ala Arg His His Gly Pro Pro Ile Pro Ser Ala Leu
 290 295 300
 Pro Pro Glu Asp Cys Thr Val Thr Gln Ser Lys Ser Ser Leu Thr Ile
 305 310 315 320
 Leu Lys Thr Phe Pro Glu Met Leu Ser Leu Gly Gly Ser Gly Gly Ser
 325 330 335
 Ser Thr Ser Ala Pro Thr Ile Lys Gly Ile Asp His Ser His Leu Ala
 340 345 350
 Ser Ser Glu Phe Thr Trp Trp Gln Pro His Ala Lys Asp Ser Phe Ser
 355 360 365
 Ser Asn Phe Val Pro Ser Asp Phe Met Glu Glu Leu Leu Thr Leu His
 370 375 380
 Ser Ser Glu Ala Phe Leu Gly Gly His Ser Val Ala Asn Leu Ile Glu
 385 390 395 400
 Pro Val Asn Ile Ser Phe Leu Ser His Asp Ile Leu Ala Leu Leu Glu
 405 410 415
 Arg Gln Val Lys Lys Arg Gly Asp Phe Leu Met Trp Lys Glu Asn Gly
 420 425 430
 Lys Lys Pro Gly Ser Phe Pro Lys Gln Leu Arg Pro Asn Tyr Gln Leu
 435 440 445
 Asn Ser Ser Arg Asn Met Leu Thr Ser Ile Ala Val Lys His Asp Leu
 450 455 460
 Ala Glu Ser Phe Pro Phe Trp Ala Ser Lys Gly Lys Leu Glu Trp Gln

465 470 475 480
His Ile His Gln Gln Pro Pro His Ser Lys Cys Phe Glu Asp His Leu
 485 490 495
Glu Gln Lys Tyr Val Gln Leu Phe Trp Gly Leu Pro Ser Leu His Ser
 500 505 510
Glu Ser Leu His Pro Thr Val Leu Val Gln Arg Gly His Ser Ser Met
 515 520 525
Phe Val Phe Phe Asn Gly Ile Thr Asn Thr Ser Ile Ser His Glu Ser
 530 535 540
Pro Val Leu Pro Pro Pro Gln Pro Leu Ser Leu Pro Ser Thr Gln Pro
545 550 555 560
Leu Pro Leu Pro Gln Thr Leu Pro Gln Gly Gln Ser Pro His Leu Thr
 565 570 575
Gln Val Lys Ser Leu Ala Gln Pro Gln Ser Pro Phe Arg Ala Leu Leu
 580 585 590
Pro Ser Pro Leu Phe Leu Ile Arg Ile Cys Gly Val Cys Phe His Arg
 595 600 605
Pro Gln Asn Glu Ala Arg Ser Leu Leu Pro Ser Glu Ile Asn His Leu
 610 615 620
Glu Trp Asn Val Leu Gln Lys Val Gln Glu Ser Leu Trp Gly Leu Pro
625 630 635 640
Ser Val Val Gln Lys Ser Gln Glu Asp Phe Cys Pro Pro Ala Pro Asn
 645 650 655
Pro Glu Leu Val Arg Lys Ser Phe Lys Val His Val Pro Ile Ser Ile
 660 665 670
Ile Pro Gly Asp Phe Pro Leu Ser Ser Glu Val Arg Lys Lys Leu Glu
 675 680 685
Gln His Ile Arg Arg Arg Leu Ile Gln Arg Arg Trp Gly Leu Pro Arg
 690 695 700

Arg Ile His Glu Ser Leu Ser Leu Leu Arg Pro Gln Ser Lys Ile Ser
705 710 715 720
Glu Leu Ser Val Ser Glu Arg Ile His Gly Pro Leu Asn Ile Ser Leu
725 730 735
Val Glu Gly Gln Arg Cys Asn Val Leu Lys Lys Ser Ala Ser Ser Phe
740 745 750
Pro Arg Ser Phe His Glu Arg Ser Ser Asn Met Leu Ser Met Glu Asn
755 760 765
Val Gly Asn Tyr Gln Gly Tyr Ser Gln Glu Thr Val Pro Lys Asp His
770 775 780
Leu Leu His Gly Pro Glu Thr Ser Ser Asp Lys Asp Leu Arg Ser Asn
785 790 795 800
Ser Glu Arg Asp Leu Glu Thr His Met Met His Leu Ser Gly Asn Asp
805 810 815
Ser Gly Val Arg Leu Gly Gln Lys Gln Leu Glu Asn Ala Leu Thr Val
820 825 830
Arg Leu Ser Lys Lys Phe Glu Glu Ile Asn Glu Gly Arg Met Pro Gly
835 840 845
Thr Val His Ser Ser Trp His Ser Val Lys Gln Thr Met Ser Leu Pro
850 855 860
Glu Lys Ser His Ser Gln Ile Lys His Arg Asn Leu Val Thr Leu Val
865 870 875 880
Ser Glu Asp His Cys Val Asp Thr Ser Gln Glu Ile Ser Phe Leu Ser
885 890 895
Ser Asn Lys Gln Lys Met Leu Glu Ala His Ile Lys Thr Phe Arg Met
900 905 910
Arg Met Leu Trp Gly Leu Pro Leu Lys Val Leu Glu Ser Ile Glu Ile
915 920 925
Phe Lys Ser Lys Ala Asp Leu Ser Thr Ser Phe Ser His Phe Asp Leu

930 935 940
Pro Ser Ser Ala Thr Phe Ile Ser Gln Gly Asp Ser Lys Asp Gly Val
945 950 955 960
Ser Lys Ser Arg Ser Arg Ser Thr Phe Gln Gly Glu Lys Leu Gly Thr
965 970 975
Thr Ser Ser Val Pro Ile Leu Asp Arg Pro His Pro Val Ser Ser Pro
980 985 990
Val Val Gln Glu Gly Gln Gly Thr Leu Arg Arg Gln Phe Ser Asp Thr
995 1000 1005
Asp His Asp Leu Ile Glu Thr Asp Ser Lys Asp Gly Ala Ser Thr Ser
1010 1015 1020
Leu Arg Arg Gly Thr Thr Asp Phe Gln Ser Glu Lys Leu Asp Ser Thr
1025 1030 1035 1040
Ser Ser Phe Pro Ile Leu Gly His Ser Tyr Leu Val Thr Ser Pro Val
1045 1050 1055
Asn Gln Glu Lys Gln Gly Thr Leu Arg Arg Glu Phe Ser Asp Thr Asp
1060 1065 1070
Asn Asp Leu Thr Glu Ser Val Arg Thr Thr Glu Asp Gly Arg Gln Thr
1075 1080 1085
Phe Leu Pro Pro Pro His Ser Ile Val Asp Glu Val Ser Gln Lys Gln
1090 1095 1100
Thr Val Leu Ala Ser Arg Cys Ser Ala Glu Leu Pro Ile Met Gln Ala
1105 1110 1115 1120
Gly Ala Gly Cys Glu Ser Trp Asp Lys Arg Lys Ser Ser Phe His Asn
1125 1130 1135
Val Asp Arg Leu Gln Gly Ser Arg Lys Thr Phe Pro Val Thr Asn Ala
1140 1145 1150
Leu Gln Ser Gln Thr Arg Asn Asn Leu Thr Thr Ser Lys Ser Gly Ser
1155 1160 1165

Cys Ser Leu Thr Asn Val Lys Ala Ser Thr Ser Asn Glu Thr Glu Ile
1170 1175 1180
Phe Pro Pro Arg Ile Ser Val Pro Gln Asp Pro Lys Ser Ser Tyr Leu
1185 1190 1195 1200
Lys Asn Gln Met Leu Ser Gln Leu Lys Leu Val Gln Arg Lys His Ser
1205 1210 1215
Gln Pro Gln Ser His Phe Thr Asp Met Ser Phe Ala Leu Asp Asn Leu
1220 1225 1230
Ser Ser Lys Asp Leu Leu Thr Asn Ser Gln Gly Ile Ser Ser Gly Asp
1235 1240 1245
Met Gly Thr Ser Gln Val Val His Val His Leu Glu Asp Ser Gly Ile
1250 1255 1260
Arg Val Ala Gln Lys Gln Glu Pro Arg Val Pro Thr Cys Val Leu Gln
1265 1270 1275 1280
Lys Cys Gln Val Thr Asn Phe Pro Pro Ala Val Asn Arg Val Ser Pro
1285 1290 1295
Val Arg Pro Lys Gly Gly Glu Leu Asp Gly Gly Asp Ala Gly Leu Gly
1300 1305 1310
Thr Ser Gln Arg Arg Arg Lys Ser Leu Pro Val His Asn Lys Thr Ser
1315 1320 1325
Gly Glu Val Leu Gly Ser Lys Ser Ser Pro Thr Leu Lys Thr Gln Pro
1330 1335 1340
Pro Pro Glu Asn Leu Phe Arg Lys Trp Met Lys Thr Ser Leu Gln Trp
1345 1350 1355 1360
Phe Asn Lys Pro Ser Ile Ser Tyr Glu Glu Gln Glu Ser Ser Trp Glu
1365 1370 1375
Lys Gly Ser Ser Leu Ser Ser Cys Val Gln Asn Ile Gly Arg Val Ile
1380 1385 1390
Arg Ala Ala Phe Thr Gly Thr Thr Glu Ala Gln Lys Ile Arg Lys Asp

1395	1400	1405	
Thr Arg Glu Phe Leu Glu Glu Lys Leu Gly His Arg His Gly Ile Asp			
1410	1415	1420	
Ile Thr Cys Pro Gln Glu Pro Leu Ser Phe Pro Val Gly Leu Gly Lys			
1425	1430	1435	1440
Ala Gln His Asn Pro Glu Val His Val Arg Ala Glu Pro Val Gln Gly			
1445	1450	1455	
Cys Pro Cys Asn Tyr Arg Ala Pro Ser Cys Lys Val Thr Arg Thr Lys			
1460	1465	1470	
Ser Cys Ser Gln Gln Ala Ile Phe Val Gly Gln Asn Tyr Pro Thr Arg			
1475	1480	1485	
Ile Arg Gln Ile Ile Asp Lys Asp Arg Gln Pro Gln Lys Val Glu Ala			
1490	1495	1500	
Phe Lys Gly Lys Ile Leu Cys Gln Ser His Pro Gln Ser Met Pro His			
1505	1510	1515	1520
Arg Lys Pro Val Pro His Pro Asn Pro Thr Cys Arg Arg Gln Val Ser			
1525	1530	1535	
Leu Val Cys Pro Ala Val Pro Thr Ser Ala Lys Ser Pro Val Phe Ser			
1540	1545	1550	
Asp Val Pro Phe Leu Thr Gly Gln Lys Met Leu Pro Lys His Leu Gln			
1555	1560	1565	
Gly Gly Lys Phe Pro Pro Thr Lys			
1570	1575		

<210> 3419

<211> 976

<212> PRT

<213> Homo sapiens

<400> 3419

Met Gly Asn Leu Glu Ser Ala Glu Gly Val Pro Gly Glu Pro Pro Ser
 1 5 10 15
 Val Pro Leu Leu Leu Pro Pro Gly Lys Met Pro Met Pro Glu Pro Cys
 20 25 30
 Glu Leu Glu Glu Arg Phe Ala Leu Val Leu Ser Ser Met Asn Leu Pro
 35 40 45
 Pro Asp Lys Ala Arg Leu Leu Arg Gln Tyr Asp Asn Glu Lys Lys Trp
 50 55 60
 Asp Leu Ile Cys Asp Gln Glu Arg Phe Gln Val Lys Asn Pro Pro His
 65 70 75 80
 Thr Tyr Ile Gln Lys Leu Gln Ser Phe Leu Asp Pro Ser Val Thr Arg
 85 90 95
 Lys Lys Phe Arg Arg Arg Val Gln Glu Ser Thr Lys Val Leu Arg Glu
 100 105 110
 Leu Glu Ile Ser Leu Arg Thr Asn His Ile Gly Trp Val Arg Glu Phe
 115 120 125
 Leu Asn Asp Glu Asn Lys Gly Leu Asp Val Leu Val Asp Tyr Leu Ser
 130 135 140
 Phe Ala Gln Cys Ser Val Met Tyr Ser Thr Leu Pro Gly Arg Arg Ala
 145 150 155 160
 Leu Lys Asn Ser Arg Leu Val Ser Gln Lys Asp Asp Val His Val Cys
 165 170 175
 Ile Leu Cys Leu Arg Ala Ile Met Asn Tyr Gln Tyr Gly Phe Asn Leu
 180 185 190
 Val Met Ser His Pro His Ala Val Asn Glu Ile Ala Leu Ser Leu Asn
 195 200 205
 Asn Lys Asn Pro Arg Thr Lys Ala Leu Val Leu Glu Leu Leu Ala Ala

210	215	220
Val Cys Leu Val Arg Gly Gly His Glu Ile Ile Leu Ala Ala Phe Asp		
225	230	235
Asn Phe Lys Glu Val Cys Lys Glu Leu His Arg Phe Glu Lys Leu Met		
245	250	255
Glu Tyr Phe Arg Asn Glu Asp Ser Asn Ile Asp Phe Met Val Ala Cys		
260	265	270
Met Gln Phe Ile Asn Ile Val Val His Ser Val Glu Asp Met Asn Phe		
275	280	285
Arg Val His Leu Gln Tyr Glu Phe Thr Lys Leu Gly Leu Glu Glu Phe		
290	295	300
Leu Gln Lys Ser Arg His Thr Glu Ser Glu Lys Leu Gln Val Gln Ile		
305	310	315
Gln Ala Tyr Leu Asp Asn Val Phe Asp Val Gly Gly Leu Leu Glu Asp		
325	330	335
Ala Glu Thr Lys Asn Val Ala Leu Glu Lys Val Glu Glu Leu Glu Glu		
340	345	350
His Val Ser His Leu Thr Glu Lys Leu Leu Asp Leu Glu Asn Glu Asn		
355	360	365
Met Met Arg Val Ala Glu Leu Glu Lys Gln Leu Leu Gln Arg Glu Lys		
370	375	380
Glu Leu Glu Ser Ile Lys Glu Thr Tyr Glu Asn Thr Ser His Gln Val		
385	390	395
His Thr Leu Arg Arg Leu Ile Lys Glu Lys Glu Glu Ala Phe Gln Arg		
405	410	415
Arg Cys His Leu Glu Pro Asn Val Arg Gly Leu Glu Ser Val Asp Ser		
420	425	430
Glu Ala Leu Ala Arg Val Gly Pro Ala Glu Leu Ser Glu Gly Met Pro		
435	440	445

Pro Ser Asp Leu Asp Leu Leu Ala Pro Ala Pro Pro Pro Glu Glu Val

450

455

460

Leu Pro Leu Pro Pro Pro Pro Ala Pro Pro Leu Pro Pro Pro Pro Pro

465

470

475

480

Pro Leu Pro Asp Lys Cys Pro Pro Ala Pro Pro Leu Pro Gly Ala Ala

485

490

495

Pro Ser Val Val Leu Thr Val Gly Leu Ser Ala Ile Arg Ile Lys Lys

500

505

510

Pro Ile Lys Thr Lys Phe Arg Leu Pro Val Phe Asn Trp Thr Ala Leu

515

520

525

Lys Pro Asn Gln Ile Ser Gly Thr Val Phe Ser Glu Leu Asp Asp Glu

530

535

540

Lys Ile Leu Glu Asp Leu Asp Leu Asp Lys Phe Glu Glu Leu Phe Lys

545

550

555

560

Thr Lys Ala Gln Gly Pro Ala Leu Asp Leu Ile Cys Ser Lys Asn Lys

565

570

575

Thr Ala Gln Lys Ala Ala Ser Lys Val Thr Leu Leu Glu Ala Asn Arg

580

585

590

Ala Lys Asn Leu Ala Ile Thr Leu Arg Lys Ala Gly Arg Ser Ala Glu

595

600

605

Glu Ile Cys Arg Ala Ile His Thr Phe Asp Leu Gln Thr Leu Pro Val

610

615

620

Asp Phe Val Glu Cys Leu Met Arg Phe Leu Pro Thr Glu Ala Glu Val

625

630

635

640

Lys Leu Leu Arg Gln Tyr Glu Arg Glu Arg Gln Pro Leu Glu Glu Leu

645

650

655

Ala Ala Glu Asp Arg Phe Met Leu Leu Phe Ser Lys Val Glu Arg Leu

660

665

670

Thr Gln Arg Met Ala Gly Met Ala Phe Leu Gly Asn Phe Gln Asp Asn

675 680 685
Leu Gln Met Leu Thr Pro Gln Leu Asn Ala Ile Ile Ala Ala Ser Ala
690 695 700
Ser Val Lys Ser Ser Gln Lys Leu Lys Gln Met Leu Glu Ile Ile Leu
705 710 715 720
Ala Leu Gly Asn Tyr Met Asn Ser Ser Lys Arg Gly Ala Val Tyr Gly
725 730 735
Phe Lys Leu Gln Ser Leu Asp Leu Leu Leu Asp Thr Lys Ser Thr Asp
740 745 750
Arg Lys Met Thr Leu Leu His Phe Ile Ala Leu Thr Val Lys Glu Lys
755 760 765
Tyr Pro Asp Leu Ala Asn Phe Trp His Glu Leu His Phe Val Glu Lys
770 775 780
Ala Ala Ala Val Ser Leu Glu Asn Val Leu Leu Asp Val Lys Glu Leu
785 790 795 800
Gly Arg Gly Met Glu Leu Ile Arg Arg Glu Cys Ser Ile His Asp Asn
805 810 815
Ser Val Leu Arg Asn Phe Leu Ser Thr Asn Glu Gly Lys Leu Asp Lys
820 825 830
Leu Gln Arg Asp Ala Lys Thr Ala Glu Glu Ala Tyr Asn Ala Val Val
835 840 845
Arg Tyr Phe Gly Glu Ser Pro Lys Thr Thr Pro Pro Ser Val Phe Phe
850 855 860
Pro Val Phe Val Arg Phe Ile Arg Ser Tyr Lys Glu Ala Glu Gln Glu
865 870 875 880
Asn Glu Ala Arg Lys Lys Gln Glu Glu Val Met Arg Glu Lys Gln Leu
885 890 895
Ala Gln Glu Ala Lys Lys Leu Asp Ala Lys Thr Pro Ser Gln Arg Asn
900 905 910

Lys Trp Gln Gln Gln Glu Leu Ile Ala Glu Leu Arg Arg Arg Gln Ala
 915 920 925
 Lys Glu His Arg Pro Val Tyr Glu Gly Lys Asp Gly Thr Ile Glu Asp
 930 935 940
 Ile Ile Thr Gly Leu His Cys Gln Pro Met Val Val Arg His Gln Ala
 945 950 955 960
 Arg Ser Ala Ala Pro Pro Ser Gly Pro Pro Arg Ala Pro Gly Pro His
 965 970 975

<210> 3420

<211> 149

<212> PRT

<213> Homo sapiens

<400> 3420

Met Glu Arg Ile Glu Gly Ala Ser Val Gly Arg Cys Ala Ala Ser Pro
 1 5 10 15
 Tyr Leu Arg Pro Leu Thr Leu His Tyr Arg Gln Asn Gly Ala Gln Lys
 20 25 30
 Ser Trp Asp Phe Met Lys Thr His Asp Ser Val Thr Val Leu Leu Phe
 35 40 45
 Asn Ser Ser Arg Arg Ser Leu Val Leu Val Lys Gln Phe Arg Pro Ala
 50 55 60
 Val Tyr Ala Gly Glu Val Glu Arg Arg Phe Pro Gly Ser Leu Ala Ala
 65 70 75 80
 Val Asp Gln Asp Gly Pro Arg Glu Leu Gln Pro Ala Leu Pro Gly Ser
 85 90 95
 Ala Gly Val Thr Val Glu Leu Cys Ala Gly Leu Val Asp Gln Pro Gly

100 105 110
 Leu Ser Leu Glu Glu Val Ala Cys Lys Glu Ala Trp Glu Glu Cys Gly
 115 120 125
 Tyr His Leu Ala Pro Ser Asp Leu Arg Arg Val Ala Thr Tyr Trp Asp
 130 135 140
 Ala Thr Met Gly Ser
 145

<210> 3421

<211> 161

<212> PRT

<213> Homo sapiens

<400> 3421

Met Tyr Pro Phe Gly Ile Phe Phe Phe Ser Phe Phe Phe Leu Ser Ser
 1 5 10 15
 Arg Thr His Val Ser Ile Tyr Phe Ser Glu Asn Met Leu Val Lys Ile
 20 25 30
 Leu His Ala Phe Val Ser Leu Glu Met Ser Leu Phe Cys Leu Leu Val
 35 40 45
 Trp Arg Val Ser Phe Phe Leu Ser Phe Phe Pro Ser Phe Ser Leu Ser
 50 55 60
 Leu Ser Ser Ser Leu Pro Pro Leu Ser Phe Phe Leu Phe Leu Ser Phe
 65 70 75 80
 Ser Phe Phe Phe Phe Pro Phe Leu Ser Phe Phe Leu Ser Phe Phe Phe
 85 90 95
 Phe Pro Ser Phe Phe Leu Phe Ser Phe Leu Leu Ser Leu Phe Pro Ser
 100 105 110

Phe Phe Leu Ser Leu Ser Leu Ser Phe Phe Leu Phe Phe Arg Val Ser
 115 120 125
 Leu Cys His Pro Gly Trp Ser Gly Ala Val Ala Gln Ser Gln Asn Thr
 130 135 140
 Ala Thr Ser Ala Phe Gln Ala Gln Ala Ile Leu Leu Ser Gln Pro Pro
 145 150 155 160
 Lys

<210> 3422

<211> 133

<212> PRT

<213> Homo sapiens

<400> 3422

Met Met Val Lys Gly Ser Ile Gln Gln Glu Asn Leu Thr Ile Leu Asn
 1 5 10 15
 Ile Tyr Ala Pro Asn Thr Gly Ala Pro Arg Phe Ile Lys Gln Ala Arg
 20 25 30
 Lys Asp Leu Gln Arg Asp Thr Leu Ser His Ser Asn Ser Gly Arg Leu
 35 40 45
 Gln His Pro Thr Asp Ser Ile Arg Ser Leu Arg Gln Lys Ile Asn Lys
 50 55 60
 Asp Ile Gln Asp Leu Asn Ser Ala Leu Asp Gln Met Asp Leu Ile Asp
 65 70 75 80
 Leu Tyr Arg Ser Leu His Pro Lys Thr Thr Glu His Thr Phe Phe Ser
 85 90 95
 Leu Pro His Gly Thr Tyr Ser Gln Ile Asp His Ile Ile Gly His Lys

100 105 110
 Thr Ser Ser Thr Tyr Val Lys Glu Leu Lys Ser Tyr Gln Thr Tyr Ser
 115 120 125
 Arg Phe Thr Ala Gln
 130

<210> 3423

<211> 191

<212> PRT

<213> Homo sapiens

<400> 3423

Met Pro Gly Ala Ile Asp Asp His Cys Pro Ala Gln Pro Gly Glu Glu
 1 5 10 15
 Gly Thr Ala Phe Asn Val Thr Met Gly Tyr Lys Tyr Pro Pro Leu Cys
 20 25 30
 Leu Gly His Ala Thr Arg Cys Ile His Leu Glu Thr Gln Val Trp Ala
 35 40 45
 Ala Tyr Leu Leu Glu Arg Leu Ala Thr Gly Lys Trp Gly His Leu Val
 50 55 60
 Ser Gly Leu Ser Leu Cys Pro Leu Arg Gln Met Lys Arg Gly Val Ile
 65 70 75 80
 Gly Asp Thr Pro Tyr Phe Gln Tyr Lys Pro Val Gly Lys Leu Cys Pro
 85 90 95
 Lys Asn Phe Glu Gly Pro Ser Lys Thr Leu Ile Trp Gly Asp Cys Val
 100 105 110
 Asn Ser His Ala Val Val Leu Lys Asn Asp Ser Tyr Ala Leu Val Ile
 115 120 125

Asp Trp Ala Pro Lys Gly Tyr Leu Lys Asn Thr Cys Ser Ser Gly Gly
 130 135 140
 Gly Glu Phe Leu Glu Ala Thr Tyr Phe Ile Ser Tyr Trp Glu Asp Glu
 145 150 155 160
 Asp His His Pro Thr Leu His Arg Trp Phe Gly Ser Phe Phe Thr Leu
 165 170 175
 Lys Trp Glu Asp Lys Asp Ile Thr Leu His Pro Gln Gly Leu Val
 180 185 190

<210> 3424

<211> 286

<212> PRT

<213> Homo sapiens

<400> 3424

Met Ala Met Cys Gly Ser Cys Pro Cys Pro Met Arg Pro Thr Asp Phe
 1 5 10 15
 Leu Gly Tyr Gly Ala Pro Val Pro Gly Arg Pro Trp Pro Trp Arg Ala
 20 25 30
 Ser Pro Ala Val Gln Arg Gln Pro Leu Ser Ser Cys Thr Ala Ser Ala
 35 40 45
 Ser Leu His Leu His Ser Val Ser Leu Ser Pro Pro Ala Gln Arg Leu
 50 55 60
 Gly Ala Ala Ala Ser Pro Pro Ala Gln Arg Gln Pro Leu Ser Thr Cys
 65 70 75 80
 Thr Ala Ser Ala Ser Leu His Leu His Ser Gly Trp Glu Gln Gln Pro
 85 90 95
 Leu His Arg His Ser Gly Ser Leu Ser Pro Pro Ala Gln Arg Gln Pro

100	105	110
Leu Ser Thr Cys Thr Ala Ser Ala Ser Leu His Leu His Ser Gly Trp		
115	120	125
Glu Gln Gln Ser Leu His Leu His Ser Gly Ser Leu Ser Pro Pro Ala		
130	135	140
Gln Arg Gln Pro Leu His Leu His Ser Val Ser Leu Ser Pro Pro Ala		
145	150	155
Gln Trp Leu Gly Ala Ala Ala Ser Pro Pro Ala Gln Arg Gln Pro Leu		
165	170	175
Ser Thr Cys Thr Ala Ser Ala Ser Leu His Leu His Ser Gly Trp Glu		
180	185	190
Gln Gln Pro Leu His Arg His Ser Gly Ser Leu Ser Pro Pro Ala Arg		
195	200	205
Gln Gln Pro Leu His Arg His Ser Gly Ser Leu Ser Pro Pro Ala Arg		
210	215	220
Trp Gln Pro Leu Ser Thr Cys Thr Ala Ala Gly Ser Ser Ser Leu Ser		
225	230	235
Thr Cys Thr Thr Ala Ala Ser Leu His Leu His Ser Ser Trp Glu Gln		
245	250	255
Gln Pro Arg Arg Val Ala Ala Lys Met Glu Phe Pro His Val Met Ser		
260	265	270
Gly Gln His Pro Pro His Thr Ala Gln Ser Ala Gly Leu Trp		
275	280	285

<210> 3425

<211> 229

<212> PRT

<213> Homo sapiens

<400> 3425

Met Arg Leu Glu Thr Ala Glu Ala Tyr Val Gly Pro Gly Gly Pro Glu
 1 5 10 15
 Cys Pro Met Arg Thr Pro Gln Leu Ala Leu Leu Gln Val Phe Phe Leu
 20 25 30
 Val Phe Pro Asp Gly Val Arg Pro Gln Pro Ser Ser Ser Pro Ser Gly
 35 40 45
 Ala Val Pro Thr Ser Leu Glu Leu Gln Arg Gly Thr Asp Gly Gly Thr
 50 55 60
 Leu Gln Ser Pro Ser Glu Ala Thr Ala Thr Arg Pro Ala Val Pro Gly
 65 70 75 80
 Leu Pro Thr Val Val Pro Thr Leu Val Thr Pro Ser Ala Pro Gly Asn
 85 90 95
 Arg Thr Val Asp Leu Phe Pro Val Leu Pro Ile Cys Val Cys Asp Leu
 100 105 110
 Thr Pro Gly Ala Cys Asp Ile Asn Cys Cys Cys Asp Arg Asp Cys Tyr
 115 120 125
 Leu Leu His Pro Arg Thr Val Phe Ser Phe Cys Leu Pro Gly Ser Val
 130 135 140
 Arg Ser Ser Ser Trp Val Cys Val Asp Asn Ser Val Ile Phe Arg Ser
 145 150 155 160
 Asn Ser Pro Phe Pro Ser Arg Val Phe Met Asp Ser Asn Gly Ile Arg
 165 170 175
 Gln Phe Cys Val His Val Asn Asn Ser Asn Leu Asn Tyr Phe Gln Lys
 180 185 190
 Leu Gln Lys Val Asn Ala Thr Asn Phe Gln Ala Leu Ala Ala Glu Phe
 195 200 205
 Gly Gly Glu Ser Phe Thr Ser Thr Phe Gln Thr Gln Ser Pro Pro Ser

210 215 220
Phe Tyr Arg Val Ser
225

<210> 3426

<211> 103

<212> PRT

<213> Homo sapiens

<400> 3426

Met Tyr Cys Leu Ile Pro Glu His Gly Arg Lys Ala Gly Ser Leu Leu
1 5 10 15
Gly Met Leu Phe Ser Gly Gly Gln Ala Lys Leu Trp Gly Thr Ala Ser
20 25 30
Glu Ser Leu Cys Ser Gln Ser Ala Ala Asp Thr Cys Arg Gln Ser Pro
35 40 45
Leu Leu Gln Asp Val Pro Leu His Gly Glu Leu Pro Glu Ala Glu Lys
50 55 60
Gly Ala Thr Asp Leu Lys Ala Ala Gln Arg Arg Val Leu Pro Lys Ala
65 70 75 80
Gln Gly Asp Arg Cys Leu Val Ser Ala Gly Val Tyr Ser Lys Pro Lys
85 90 95
Gly Ser Pro Val Ser Lys Trp
100

<210> 3427

<211> 182

<212> PRT

<213> Homo sapiens

<400> 3427

Met	Ser	Leu	Leu	Pro	Thr	Thr	Cys	Leu	Ser	Pro	Thr	Gly	Arg	Arg	Cys
1				5					10					15	
Gly	Ser	Cys	Gln	Lys	Thr	Pro	Glu	Pro	Val	Ile	Lys	Ala	Lys	Asp	Leu
			20					25					30		
Ser	Ala	Gln	Gln	Val	Pro	Ala	Ser	Leu	Asn	Lys	Thr	Ser	Leu	Lys	Glu
		35					40					45			
Ile	Ser	Gly	Glu	Arg	Leu	Ser	Ser	Ile	Pro	Glu	Ala	Ser	Glu	Tyr	Asp
	50					55				60					
Trp	Arg	Asn	Tyr	Gln	Pro	Ser	Gln	Met	Ser	Glu	Ser	Glu	Leu	Gln	Met
65				70					75					80	
Leu	Ala	Ser	Leu	Arg	Trp	Gln	Gln	Asn	Glu	Glu	Leu	Glu	Asp	Ala	Gly
			85					90					95		
Thr	Ser	His	Gly	Leu	Ser	Ala	Ser	Gln	Val	Asp	Asn	Cys	Asn	Val	Ser
		100						105					110		
Ile	Ser	Thr	Ser	Ser	Asp	Asp	Thr	Thr	Thr	Trp	Asn	Ser	Cys	Leu	Pro
	115						120					125			
Pro	Pro	Val	Asn	Gln	Gly	Arg	His	Tyr	Gln	Lys	Glu	Met	Asn	Pro	Pro
	130					135					140				
Ser	Pro	Ser	Asn	Pro	Arg	Asp	Trp	Leu	Asn	Met	Leu	Ser	Pro	Pro	Ile
145				150					155					160	
Val	Pro	Pro	Ser	Gln	Gln	Pro	Ala	Glu	Gln	Arg	Pro	Asp	Ser	Cys	Glu
				165					170					175	
Ser	Leu	Ser	Val	Gln	Gly										
			180												

<210> 3428

<211> 148

<212> PRT

<213> Homo sapiens

<400> 3428

Met Asn Phe Thr Leu Met Val Ala Met Glu His Thr Thr Thr Met Ala

1 5 10 15

Ser Ala Thr Pro Ala Pro Trp Pro His Arg Ser Gln Arg Cys Arg Gln

20 25 30

Ala Val Pro Gly His Pro Ala Ser Gly Cys Cys Gly Thr Gly Thr Phe

35 40 45

Arg Thr Gln Arg Arg Pro Gly Asp Lys Ser Arg Arg Ala Gly Ser Arg

50 55 60

Gly Arg Gly Ala Gly Pro Gly Arg His Asp Arg Asp Ser Ala His Ala

65 70 75 80

Gly Ser Met Arg Gly Ala Arg Leu Val Pro Ala Leu Val Arg Leu Gln

85 90 95

Leu Arg Pro Pro Ala Leu Arg Gly Glu Arg Thr Pro Ile Ser Met Pro

100 105 110

Pro Ala Arg Pro Pro Ala Gly Val Ala Phe Pro Gly Ala Ser Ala Gly

115 120 125

Pro Ser Arg Thr Arg Arg Gly Val Ala Thr Ala Gly Gly Arg Arg Ala

130 135 140

Pro Ala Val Ile

145

<210> 3429

<211> 547

<212> PRT

<213> Homo sapiens

<400> 3429

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Met Gly Gly Cys Ile Pro Phe Leu Lys Ala Ala Arg Ala Leu Cys Pro
  1             5             10             15
Arg Ile Met Pro Pro Leu Leu Leu Leu Ser Ala Phe Ile Phe Leu Val
             20             25             30
Ser Val Leu Gly Gly Ala Pro Gly His Asn Pro Asp Arg Arg Thr Lys
             35             40             45
Met Val Ser Ile His Ser Leu Ser Glu Leu Glu Arg Leu Lys Leu Gln
             50             55             60
Glu Thr Ala Tyr His Glu Leu Val Ala Arg His Phe Leu Ser Glu Phe
             65             70             75             80
Lys Pro Asp Arg Ala Leu Pro Ile Asp Arg Pro Asn Thr Leu Asp Lys
             85             90             95
Trp Phe Leu Ile Leu Arg Gly Gln Gln Arg Ala Val Ser His Lys Thr
             100            105            110
Phe Gly Ile Ser Leu Glu Glu Val Leu Val Asn Glu Phe Thr Arg Arg
             115            120            125
Lys His Leu Glu Leu Thr Ala Thr Met Gln Val Glu Glu Ala Thr Gly
             130            135            140
Gln Ala Ala Gly Arg Arg Arg Gly Asn Val Val Arg Arg Val Phe Gly
             145            150            155            160
Arg Ile Arg Arg Phe Phe Ser Arg Arg Arg Asn Glu Pro Thr Leu Pro
             165            170            175
Arg Glu Phe Thr Arg Arg Gly Arg Arg Gly Ala Val Ser Val Asp Ser

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180	185	190
Leu Ala Glu Leu Glu Asp Gly Ala Leu Leu Leu Gln Thr Leu Gln Leu		
195	200	205
Ser Lys Ile Ser Phe Pro Ile Gly Gln Arg Leu Leu Gly Ser Lys Arg		
210	215	220
Lys Met Ser Leu Asn Pro Ile Ala Lys Gln Ile Pro Gln Val Val Glu		
225	230	235
Ala Cys Cys Gln Phe Ile Glu Lys His Gly Leu Ser Ala Val Gly Ile		
245	250	255
Phe Thr Leu Glu Tyr Ser Val Gln Arg Val Arg Gln Leu Arg Glu Glu		
260	265	270
Phe Asp Gln Gly Leu Asp Val Val Leu Asp Asp Asn Gln Asn Val His		
275	280	285
Asp Val Ala Ala Leu Leu Lys Glu Phe Phe Arg Asp Met Lys Asp Ser		
290	295	300
Leu Leu Pro Asp Asp Leu Tyr Met Ser Phe Leu Leu Thr Ala Thr Leu		
305	310	315
Lys Pro Gln Asp Gln Leu Ser Ala Leu Gln Leu Leu Val Tyr Leu Met		
325	330	335
Pro Pro Cys His Ser Asp Thr Leu Glu Arg Leu Leu Lys Ala Leu His		
340	345	350
Lys Ile Thr Glu Asn Cys Glu Asp Ser Ile Gly Ile Asp Gly Gln Leu		
355	360	365
Val Pro Gly Asn Arg Met Thr Ser Thr Asn Leu Ala Leu Val Phe Gly		
370	375	380
Ser Ala Leu Leu Lys Lys Gly Lys Phe Gly Lys Arg Glu Ser Arg Lys		
385	390	395
Thr Lys Leu Gly Ile Asp His Tyr Val Ala Ser Val Asn Val Val Arg		
405	410	415

Ala Met Ile Asp Asn Trp Asp Val Leu Phe Gln Val Pro Pro His Ile
 420 425 430
 Gln Arg Gln Val Ala Lys Arg Val Trp Lys Ser Ser Pro Glu Ala Leu
 435 440 445
 Asp Phe Ile Arg Arg Arg Asn Leu Arg Lys Ile Gln Ser Ala Arg Ile
 450 455 460
 Lys Met Glu Glu Asp Ala Leu Leu Ser Asp Pro Val Glu Thr Ser Ala
 465 470 475 480
 Glu Ala Arg Ala Ala Val Leu Ala Gln Ser Lys Pro Ser Asp Glu Gly
 485 490 495
 Ser Ser Glu Glu Pro Ala Val Pro Ser Gly Thr Ala Arg Ser His Asp
 500 505 510
 Asp Glu Glu Gly Ala Gly Asn Pro Pro Ile Pro Glu Gln Asp Arg Pro
 515 520 525
 Leu Leu Arg Val Pro Arg Glu Lys Glu Ala Lys Thr Gly Val Ser Tyr
 530 535 540
 Phe Phe Pro
 545

<210> 3430

<211> 120

<212> PRT

<213> Homo sapiens

<400> 3430

Met Arg Arg Gly Gly Ser Leu Gly Ala Gln Asn Gln Ala Asp Gly Ala
 1 5 10 15
 Gly Cys Arg Asn Lys Val Lys Thr Ile Leu Ile Ala Asn Ser Cys Leu

20 25 30
 Arg Arg Lys His Pro Ser Asn Leu Arg Gly Gly Ala Leu Pro Gly His
 35 40 45
 Pro Ser Val Pro Glu Ser Pro Pro Arg Pro Glu Leu Ser Gly Ser Tyr
 50 55 60
 Arg Arg Gly Gly Gln Leu Phe Pro Ser Lys Leu Glu Ser Arg Pro Arg
 65 70 75 80
 Phe Pro Arg Ile Met Lys Gly Thr Ala Phe Phe Asp Leu Asp Phe Arg
 85 90 95
 Pro Asp Pro Pro Leu Ser Arg Ser Pro Thr Phe Ser Ala Gly Cys Asn
 100 105 110
 Ser Val Gly Thr Ala Pro Leu Phe
 115 120

<210> 3431

<211> 1047

<212> PRT

<213> Homo sapiens

<400> 3431

Met Ala Glu Lys Arg Pro Leu Arg Thr Leu Gly Pro Val Met Tyr Gly
 1 5 10 15
 Lys Leu Pro Arg Leu Glu Thr Asp Ser Gly Leu Glu His Ser Leu Pro
 20 25 30
 His Ser Val Gly Asn Gln Asp Pro Cys Thr Tyr Lys Gly Ser Tyr Phe
 35 40 45
 Ser Cys Pro Met Ala Gly Thr Pro Lys Ala Glu Ser Glu Gln Leu Ala
 50 55 60

Ser Trp Thr Pro Tyr Pro Pro Leu Tyr Ser Thr Gly Met Ala Gly Pro
 65 70 75 80
 Pro Leu Gln Ala Asp Asn Leu Leu Thr Asn Cys Leu Phe Tyr Arg Ser
 85 90 95
 Pro Ala Glu Gly Pro Glu Lys Met Gln Asp Ser Ser Pro Val Glu Leu
 100 105 110
 Leu Pro Phe Ser Pro Gln Pro His Ser Tyr Pro Gly Pro Pro Leu Ala
 115 120 125
 Ala Pro Lys Pro Val Tyr Arg Asn Pro Leu Cys Tyr Gly Leu Ser Thr
 130 135 140
 Cys Leu Gly Glu Gly Ala Val Lys Arg Pro Leu Asp Val Asp Trp Thr
 145 150 155 160
 Leu Ala Thr Gly Pro Leu Leu Pro Ser Ala Asp Pro Pro Cys Ser Leu
 165 170 175
 Ala Pro Ala Pro Ser Lys Gly Gln Thr Leu Asp Gly Thr Phe Leu Arg
 180 185 190
 Gly Val Pro Ala Glu Gly Ser Ser Lys Asp Ser Ser Gly Ser Phe Ser
 195 200 205
 Pro Cys Gln Pro Phe Leu Glu Lys Tyr Gln Thr Ile His Ser Thr Gly
 210 215 220
 Phe Leu Ala Ser Arg Tyr Thr Gly Pro Tyr Pro Arg Asn Ser Lys Gln
 225 230 235 240
 Ala Met Ser Glu Gly Pro Ser Ser Pro Trp Thr Gln Leu Ala Gln Pro
 245 250 255
 Leu Gly Pro Pro Cys Gln Asp Thr Gly Pro Thr His Tyr Pro Pro Pro
 260 265 270
 His His Pro Pro Pro His Pro Pro Gln Ala Leu Pro Cys Pro Pro Ala
 275 280 285
 Cys Arg His Pro Glu Lys Gln Gly Ser Tyr Ser Pro Ala Leu Pro Leu

290	295	300
Gln Pro Leu Gly Gly His Lys Gly Thr Gly Tyr Gln Ala Gly Gly Leu		
305	310	315
Gly Ser Pro Tyr Leu Arg Gln Gln Ala Ala Gln Ala Pro Tyr Ile Pro		
325	330	335
Pro Leu Gly Leu Asp Ala Tyr Pro Tyr Pro Ser Ala Pro Leu Pro Ala		
340	345	350
Pro Ser Pro Gly Leu Lys Leu Glu Pro Pro Leu Thr Pro Arg Cys Pro		
355	360	365
Leu Asp Phe Ala Pro Gln Thr Leu Ser Phe Pro Tyr Ala Arg Asp Asp		
370	375	380
Leu Ser Leu Tyr Gly Ala Ser Pro Gly Leu Gly Gly Thr Pro Pro Ser		
385	390	395
Gln Asn Asn Val Arg Ala Val Pro Gln Pro Gly Ala Phe Gln Arg Ala		
405	410	415
Cys Gln Pro Leu Pro Ala Ser Gln Pro Cys Ser Glu Pro Val Arg Pro		
420	425	430
Ala Gln Glu Ala Glu Glu Lys Thr Trp Leu Pro Ser Cys Arg Lys Glu		
435	440	445
Lys Leu Gln Pro Arg Leu Ser Glu His Ser Gly Pro Pro Ile Val Ile		
450	455	460
Arg Asp Ser Pro Val Pro Cys Thr Pro Pro Ala Leu Pro Pro Cys Ala		
465	470	475
Arg Glu Cys Gln Ser Leu Pro Gln Lys Glu Asp Ala Arg Pro Pro Ser		
485	490	495
Ser Pro Pro Met Pro Val Ile Asp Asn Val Phe Ser Leu Ala Pro Tyr		
500	505	510
Arg Asp Tyr Leu Asp Val Pro Ala Pro Glu Ala Thr Thr Glu Pro Asp		
515	520	525

Ser Ala Thr Ala Glu Pro Asp Ser Ala Pro Ala Thr Ser Glu Gly Gln
 530 535 540
 Asp Lys Gly Cys Arg Gly Thr Leu Pro Ala Gln Glu Gly Pro Ser Gly
 545 550 555 560
 Ser Lys Pro Leu Arg Gly Ser Leu Lys Glu Glu Val Ala Leu Asp Leu
 565 570 575
 Ser Val Arg Lys Pro Thr Ala Glu Ala Ser Pro Val Lys Ala Ser Arg
 580 585 590
 Ser Val Glu His Ala Lys Pro Thr Ala Ala Met Asp Val Pro Asp Val
 595 600 605
 Gly Asn Met Val Ser Asp Leu Pro Gly Leu Lys Lys Ile Asp Thr Glu
 610 615 620
 Ala Pro Gly Leu Pro Gly Val Pro Val Thr Thr Asp Ala Met Pro Arg
 625 630 635 640
 Thr Asn Phe His Ser Ser Val Ala Phe Met Phe Arg Lys Phe Lys Ile
 645 650 655
 Leu Arg Pro Ala Pro Leu Pro Ala Ala Val Val Pro Ser Thr Pro Thr
 660 665 670
 Ser Ala Pro Ala Pro Thr Gln Pro Ala Pro Thr Pro Thr Ser Gly Pro
 675 680 685
 Ile Gly Leu Arg Ile Leu Ala Gln Gln Pro Leu Ser Val Thr Cys Phe
 690 695 700
 Ser Leu Ala Leu Pro Ser Pro Pro Ala Val Ala Val Ala Ser Pro Ala
 705 710 715 720
 Pro Ala Pro Ala Pro Ser Pro Ala Pro Ala Arg Ala Gln Ala Pro Ala
 725 730 735
 Ser Ala Arg Asp Pro Ala Pro Ala Pro Ala Pro Val Ala Gly Pro Ala
 740 745 750
 Pro Ala Ser Thr Ser Ala Pro Gly Asp Ser Leu Glu Gln His Phe Thr

755 760 765
Gly Leu His Ala Ser Leu Cys Asp Ala Ile Ser Gly Ser Val Ala His
770 775 780
Ser Pro Pro Glu Lys Leu Arg Glu Trp Leu Glu Thr Ala Gly Pro Trp
785 790 795 800
Gly Gln Ala Ala Trp Gln Asp Cys Gln Gly Val Gln Gly Leu Leu Ala
805 810 815
Lys Leu Leu Ser Gln Leu Gln Arg Phe Asp Arg Thr His Arg Cys Pro
820 825 830
Phe Pro His Val Val Arg Ala Gly Ala Ile Phe Val Pro Ile His Leu
835 840 845
Val Lys Glu Arg Leu Phe Pro Arg Leu Pro Pro Ala Ser Val Asp His
850 855 860
Val Leu Gln Glu His Arg Val Glu Leu Arg Pro Thr Thr Leu Ser Glu
865 870 875 880
Glu Arg Ala Leu Arg Glu Leu Ala Leu Pro Gly Cys Thr Ser Arg Met
885 890 895
Leu Lys Leu Leu Ala Leu Arg Gln Leu Pro Asp Ile Tyr Pro Asp Leu
900 905 910
Pro Gly Leu Gln Trp Arg Asp Cys Val Arg Arg Gln Leu Gly Asp Phe
915 920 925
Asp Thr Glu Ala Gly Ala Val Ser Ser Ser Glu Pro Thr Val Ala Arg
930 935 940
Asp Glu Pro Glu Ser Leu Ala Leu Ala Gln Lys Ser Pro Ala Pro Lys
945 950 955 960
Val Arg Lys Pro Gly Arg Lys Pro Pro Thr Pro Gly Pro Glu Lys Ala
965 970 975
Glu Ala Ala Ala Gly Glu Glu Ser Cys Gly Ala Ser Pro Thr Pro Ala
980 985 990

Thr Ser Ala Ser Pro Pro Gly Pro Thr Leu Lys Ala Arg Phe Arg Ser
 995 1000 1005
 Leu Leu Glu Thr Ala Trp Leu Asn Gly Leu Ala Leu Pro Thr Trp Gly
 1010 1015 1020
 His Lys Ser Ser Arg Pro Asp Gln Pro Ser Pro Cys Pro Gln Leu Leu
 1025 1030 1035 1040
 Asp Ser Gln Ser His His Leu
 1045

<210> 3432

<211> 125

<212> PRT

<213> Homo sapiens

<400> 3432

Met Thr Val Pro Thr Pro Gly Trp Thr Gly Gly Cys Glu Met Asp Gln
 1 5 10 15
 Gly Ala Leu Gly Gln Ala Thr Ile His Ala Trp Pro Leu Pro Pro Ser
 20 25 30
 Gly Ser Pro Ser Ser Ser Pro Arg Pro Leu Gly Pro Gly Thr Leu Gly
 35 40 45
 Thr Ser Arg Val Gly His Pro Ala Gly Pro Leu Cys His Trp Val Ala
 50 55 60
 Ala Gly Arg Ser Arg Ala Val Cys Ser Gly Thr Val Glu Asp Leu Gly
 65 70 75 80
 Ser Ala Pro Ser Cys Val Ala Val Ala Val Ser Pro Ser Pro Arg Val
 85 90 95
 Thr Thr Arg Ala Gln Asp Ser Glu Gly Pro Ala Gln Thr Pro Gln Phe

	100		105		110							
Pro	Ser	Phe	Gln	Glu	Trp	Arg	Glu	Ala	Gln	Glu	Tyr	Val
	115		120		125							

<210> 3433

<211> 123

<212> PRT

<213> Homo sapiens

<400> 3433

Met	Leu	Leu	Val	His	Phe	His	Ile	Pro	Pro	Val	His	Leu	Ala	Pro	Pro
1			5					10					15		
Phe	Lys	Phe	Leu	Glu	Asp	Ser	Ser	Ser	Arg	Ile	Ser	Lys	Ser	Thr	Asn
			20					25					30		
Val	Phe	Asp	Leu	Ser	Asp	Lys	Cys	Ile	Glu	Lys	Met	Leu	Thr	Tyr	Ala
			35				40					45			
Val	Leu	Pro	Leu	Cys	Phe	Gly	Tyr	His	Lys	Gly	Lys	Gly	Cys	Leu	Ser
			50				55					60			
Arg	Gly	Gln	Val	Thr	Cys	Leu	Thr	Leu	Ser	Ile	Thr	Trp	Asp	Asp	Ser
			65			70				75				80	
Leu	Ser	Leu	Pro	Cys	Pro	Phe	Ala	Leu	Tyr	Thr	Ile	Asn	Ser	Asn	Ala
				85						90				95	
Ser	Arg	His	Ser	Gly	Pro	Ser	Cys	Leu	Ser	Tyr	Cys	Leu	Cys	Leu	Val
			100					105						110	
Ser	Tyr	Phe	Pro	Met	Ile	Ser	Cys	Leu	His	Thr					
			115					120							

<210> 3434

<211> 766

<212> PRT

<213> Homo sapiens

<400> 3434

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Met Thr Trp Ala His Ala Arg Leu Cys Phe Leu Leu Gly Arg Leu Ser
  1           5           10           15
Ile Arg Lys Val Lys Leu Ser Gln Ala Arg Val Tyr Phe Glu Glu Ala
          20           25           30
Ile His Ile Leu Asn Gly Ala Phe Glu Asp Leu Ser Leu Val Ala Thr
          35           40           45
Leu Tyr Ile Asn Leu Ala Ala Ile Tyr Leu Lys Gln Arg Leu Arg His
          50           55           60
Lys Gly Ser Ala Leu Leu Glu Lys Ala Gly Ala Leu Leu Ala Cys Leu
          65           70           75           80
Pro Asp Arg Glu Ser Ser Ala Lys His Glu Leu Asp Val Val Ala Tyr
          85           90           95
Val Leu Arg Gln Gly Ile Val Val Gly Ser Ser Pro Leu Glu Ala Arg
          100          105          110
Ala Cys Phe Leu Ala Ile Arg Leu Leu Leu Ser Leu Gly Arg His Glu
          115          120          125
Glu Val Leu Pro Phe Ala Glu Arg Leu Gln Leu Leu Ser Gly His Pro
          130          135          140
Pro Ala Ser Glu Ala Val Ala Ser Val Leu Ser Phe Leu Tyr Asp Lys
          145          150          155          160
Lys Tyr Leu Pro His Leu Ala Val Ala Ser Val Gln Gln His Gly Ile
          165          170          175
Gln Ser Ala Gln Gly Met Ser Leu Pro Ile Trp Gln Val His Leu Val

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180 185 190
Leu Gln Asn Thr Thr Lys Leu Leu Gly Phe Pro Ser Pro Gly Trp Gly
195 200 205
Glu Val Ser Ala Leu Ala Cys Pro Met Leu Arg Gln Ala Leu Ala Ala
210 215 220
Cys Glu Glu Leu Ala Asp Arg Ser Thr Gln Arg Ala Leu Cys Leu Ile
225 230 235 240
Leu Ser Lys Val Tyr Leu Glu His Arg Ser Pro Asp Gly Ala Ile His
245 250 255
Tyr Leu Ser Gln Ala Leu Val Leu Gly Gln Leu Leu Gly Glu Gln Glu
260 265 270
Ser Phe Glu Ser Ser Leu Cys Leu Ala Trp Ala Tyr Leu Leu Ala Ser
275 280 285
Gln Ala Lys Lys Ala Leu Asp Val Leu Glu Pro Leu Leu Cys Ser Leu
290 295 300
Lys Glu Thr Glu Ser Leu Thr Gln Arg Gly Val Ile Tyr Asn Leu Leu
305 310 315 320
Gly Leu Ala Leu Gln Gly Glu Gly Arg Val Asn Arg Ala Ala Lys Ser
325 330 335
Tyr Leu Arg Ala Leu Asn Arg Ala Gln Glu Val Gly Asp Val His Asn
340 345 350
Gln Ala Val Ala Met Ala Asn Leu Gly His Leu Ser Leu Lys Ser Trp
355 360 365
Ala Gln His Pro Ala Arg Asn Tyr Leu Leu Gln Ala Val Arg Leu Tyr
370 375 380
Cys Glu Leu Gln Ala Ser Lys Glu Thr Asp Met Glu Leu Val Gln Val
385 390 395 400
Phe Leu Trp Leu Ala Gln Val Leu Val Ser Gly His Gln Leu Thr His
405 410 415

Gly Leu Leu Cys Tyr Glu Met Ala Leu Leu Phe Gly Leu Arg His Arg
420 425 430
His Leu Lys Ser Gln Leu Gln Ala Thr Lys Ser Leu Cys His Phe Tyr
435 440 445
Ser Ser Val Ser Pro Asn Pro Glu Ala Cys Ile Thr Tyr His Glu His
450 455 460
Trp Leu Ala Leu Ala Gln Gln Leu Arg Asp Arg Glu Met Glu Gly Arg
465 470 475 480
Leu Leu Glu Ser Leu Gly Gln Leu Tyr Arg Asn Leu Asn Thr Ala Arg
485 490 495
Ser Leu Arg Arg Ser Leu Thr Cys Ile Lys Glu Ser Leu Arg Ile Phe
500 505 510
Ile Asp Leu Gly Glu Thr Asp Lys Ala Ala Glu Ala Trp Leu Gly Ala
515 520 525
Gly Arg Leu His Tyr Leu Met Gln Glu Asp Glu Leu Val Glu Leu Cys
530 535 540
Leu Gln Ala Ala Ile Gln Thr Ala Leu Lys Ser Glu Glu Pro Leu Leu
545 550 555 560
Ala Leu Lys Leu Cys Glu Glu Ala Gly Asp Val Phe Phe Asn Gly Thr
565 570 575
Arg His Arg His His Ala Val Glu Tyr Tyr Arg Ala Gly Ala Val Pro
580 585 590
Leu Ala Arg Arg Leu Lys Ala Val Arg Thr Glu Leu Arg Ile Phe Asn
595 600 605
Lys Leu Thr Glu Leu Gln Ile Ser Leu Glu Gly Tyr Glu Lys Ala Leu
610 615 620
Glu Phe Ala Thr Leu Ala Ala Arg Leu Ser Thr Val Thr Gly Asp Gln
625 630 635 640
Arg Gln Glu Leu Val Ala Phe His Arg Leu Ala Thr Val Tyr Tyr Ser

645	650	655
Leu His Met Tyr Glu Met Ala Glu Asp Cys Tyr Leu Lys Thr Leu Ser		
660	665	670
Leu Cys Pro Pro Trp Leu Gln Ser Pro Lys Glu Ala Leu Tyr Tyr Ala		
675	680	685
Lys Val Tyr Tyr Arg Leu Gly Arg Leu Thr Phe Cys Gln Leu Lys Asp		
690	695	700
Ala His Asp Ala Thr Glu Tyr Phe Leu Leu Ala Leu Ala Ala Ala Val		
705	710	715
Leu Leu Gly Asp Glu Glu Leu Gln Asp Thr Ile Arg Ser Arg Leu Asp		
725	730	735
Asn Ile Cys Gln Ser Pro Leu Trp His Ser Arg Pro Ser Gly Cys Ser		
740	745	750
Ser Glu Arg Ala Arg Trp Leu Ser Gly Gly Gly Leu Ala Leu		
755	760	765

<210> 3435

<211> 289

<212> PRT

<213> Homo sapiens

<400> 3435

Met Phe Asn Thr Cys Val Tyr Ile Leu Gly Val Lys Asp Leu Lys Val
1 5 10 15
Glu Asp Asp Ile Ser Met Lys Val Ile Pro Ile Leu Ser Thr Leu Asn
20 25 30
Cys Ala Leu Leu Glu Thr Lys Lys Ser Leu Pro Glu Glu Arg Ile His
35 40 45

Pro Asn Thr Leu Val Lys Arg His Phe Gln Glu Leu Tyr Lys Ala Asp
 50 55 60
 Arg Ser Pro Ser Leu Ser Val Ala Pro Gln Asp Arg Met Lys Asp Pro
 65 70 75 80
 Thr Phe Leu Gly Lys Leu Pro Ser Gly Phe Asp Leu Ile Pro Pro Ala
 85 90 95
 Glu Lys Cys Pro Ser Glu Ser Leu Thr Gln Leu Asn Ser Tyr Phe Ser
 100 105 110
 Asp Pro Ser Ala Tyr Ile Leu Glu Val Ser Thr Ala Leu Asp Leu Leu
 115 120 125
 Ala Glu His Pro Gln Ser Pro Cys Val Ser Asp Gly Ile Cys Asp Ala
 130 135 140
 Gly Phe Ser Leu Val Met Thr Pro Asp Pro Glu Phe Leu Val Ser Glu
 145 150 155 160
 Ala Glu Val Arg Lys Glu Thr Glu Thr Lys Lys Asp Ser Glu Glu Met
 165 170 175
 Leu Lys Ala Lys Lys Arg Val Phe Pro Leu Ser Pro Ala Ser Asn Leu
 180 185 190
 Arg Val Gln Pro Lys Arg Lys Ala Ser Met Pro His Met Val Gln Ser
 195 200 205
 Lys Lys Val Asn Leu Cys Arg Pro Phe Pro Lys Arg Thr Ala Ser Arg
 210 215 220
 Ala Asp Asn Ser Ser Asp Ser Pro Thr Thr Leu Lys Leu Val Lys Gly
 225 230 235 240
 Gln Phe Pro Gln Lys Arg Lys Arg Gly Lys His Asp Leu Phe Met Trp
 245 250 255
 Val Ile Ile Ile Ile Val Val Ala Arg Arg Trp Trp Leu Met Pro Val
 260 265 270
 Ile Pro Ala Leu Trp Glu Thr Lys Trp Val Asp His Leu Arg Ser Gly

275 280 285

Val

<210> 3436

<211> 798

<212> PRT

<213> Homo sapiens

<400> 3436

Met	Gly	Lys	Ala	Ser	Pro	Ala	Ser	Gly	Leu	Ser	Arg	Pro	Lys	Thr	Leu
1				5					10					15	
Val	Ser	Pro	Leu	Arg	Ser	Asn	Gln	Trp	Ser	Leu	Gln	Lys	Gly	Leu	Pro
			20					25					30		
Glu	Gln	Tyr	Tyr	Ser	Leu	Thr	Trp	Phe	Leu	Ser	Pro	Ile	Leu	Gly	Leu
		35					40					45			
Ile	Phe	Thr	Pro	Leu	Ile	Gly	Ser	Ala	Ser	Asp	Arg	Cys	Thr	Leu	Ser
		50				55					60				
Trp	Gly	Arg	Arg	Arg	Pro	Phe	Ile	Leu	Ala	Leu	Cys	Val	Gly	Val	Leu
		65				70					75				80
Phe	Gly	Val	Ala	Leu	Phe	Leu	Asn	Gly	Ser	Ala	Ile	Gly	Leu	Ala	Leu
				85						90					95
Gly	Asp	Val	Pro	Asn	Arg	Gln	Pro	Ile	Gly	Ile	Val	Leu	Thr	Val	Leu
			100						105					110	
Gly	Val	Val	Val	Leu	Asp	Phe	Ser	Ala	Asp	Ala	Thr	Glu	Gly	Pro	Ile
			115						120					125	
Arg	Ala	Tyr	Leu	Leu	Asp	Val	Val	Asp	Ser	Glu	Glu	Gln	Asp	Met	Ala
			130						135					140	

Leu Asn Ile His Ala Phe Ser Ala Gly Leu Gly Gly Ala Ile Gly Tyr
145 150 155 160
Val Leu Gly Gly Leu Asp Trp Thr Gln Thr Phe Leu Gly Ser Trp Phe
165 170 175
Arg Thr Gln Asn Gln Val Leu Phe Phe Phe Ala Ala Ile Ile Phe Thr
180 185 190
Val Ser Val Ala Leu His Leu Phe Ser Ile Asp Glu Glu Gln Tyr Ser
195 200 205
Pro Gln Gln Glu Arg Ser Ala Glu Glu Pro Gly Ala Leu Asp Gly Gly
210 215 220
Glu Pro His Gly Val Pro Ala Phe Pro Asp Glu Val Gln Ser Glu His
225 230 235 240
Glu Leu Ala Leu Asp Tyr Pro Asp Val Asp Ile Met Arg Ser Lys Ser
245 250 255
Asp Ser Ala Leu His Val Pro Asp Thr Ala Leu Asp Leu Glu Pro Glu
260 265 270
Leu Leu Phe Leu His Asp Ile Glu Pro Ser Ile Phe His Asp Ala Ser
275 280 285
Tyr Pro Ala Thr Pro Arg Ser Thr Ser Gln Glu Leu Ala Lys Thr Lys
290 295 300
Leu Pro Arg Leu Ala Thr Phe Leu Lys Glu Ala Ala Lys Glu Asp Glu
305 310 315 320
Thr Leu Leu Asp Asn His Leu Asn Glu Ala Lys Val Pro Asn Gly Ser
325 330 335
Gly Ser Pro Thr Lys Asp Ala Leu Gly Gly Tyr Thr Arg Val Asp Thr
340 345 350
Lys Pro Ser Ala Thr Ser Ser Ser Met Arg Arg Arg Arg His Ala Phe
355 360 365
Arg Arg Gln Ala Ser Ser Thr Phe Ser Tyr Tyr Gly Lys Leu Gly Ser

370	375	380
His Cys Tyr Arg Tyr Arg Arg Ala Asn Ala Val Val Leu Ile Lys Pro		
385	390	395
Ser Arg Ser Met Ser Asp Leu Tyr Asp Met Gln Lys Arg Gln Arg Gln		400
	405	410
His Arg His Arg Asn Gln Ser Gly Ala Thr Thr Ser Ser Gly Asp Thr		415
	420	425
Glu Ser Glu Glu Gly Glu Gly Glu Thr Thr Val Arg Leu Leu Trp Leu		430
	435	440
Ser Met Leu Lys Met Pro Arg Glu Leu Met Arg Leu Cys Leu Cys His		445
	450	455
Leu Leu Thr Trp Phe Ser Val Ile Ala Glu Ala Val Phe Tyr Thr Asp		460
465	470	475
Phe Met Gly Gln Val Ile Phe Glu Gly Asp Pro Lys Ala Pro Ser Asn		480
	485	490
Ser Thr Ala Trp Gln Ala Tyr Asn Ala Gly Val Lys Met Gly Cys Trp		495
	500	505
Gly Leu Val Ile Tyr Ala Ala Thr Gly Ala Ile Cys Ser Ala Leu Leu		510
	515	520
Gln Lys Tyr Leu Asp Asn Tyr Asp Leu Ser Val Arg Val Ile Tyr Val		525
	530	535
Leu Gly Thr Leu Gly Phe Ser Val Gly Thr Ala Val Met Ala Met Phe		540
545	550	555
Pro Asn Val Tyr Val Ala Met Val Thr Ile Ser Thr Met Gly Ile Val		560
	565	570
Ser Met Ser Ile Ser Tyr Cys Pro Tyr Ala Leu Leu Gly Gln Tyr His		575
	580	585
Asp Ile Lys Gln Tyr Ile His His Ser Pro Gly Asn Ser Lys Arg Gly		590
	595	600
		605

Phe Gly Ile Asp Cys Ala Ile Leu Ser Cys Gln Val Tyr Ile Ser Gln
610 615 620
Ile Leu Val Ala Ser Ala Leu Gly Gly Val Val Asp Ala Val Gly Thr
625 630 635 640
Val Arg Val Ile Pro Met Val Ala Ser Val Gly Ser Phe Leu Gly Phe
645 650 655
Leu Thr Ala Thr Phe Leu Val Ile Tyr Pro Asn Val Ser Glu Glu Ala
660 665 670
Lys Glu Glu Gln Lys Gly Leu Ser Ser Pro Leu Ala Gly Glu Gly Arg
675 680 685
Ala Gly Gly Asn Ser Glu Lys Pro Thr Val Leu Lys Leu Thr Arg Lys
690 695 700
Glu Gly Leu Gln Gly Pro Val Glu Thr Glu Arg Leu Gln Val Leu Thr
705 710 715 720
Ser Val Arg Ser Arg His Ile Gly Trp Cys Arg Ser Cys Trp Arg Val
725 730 735
Phe Phe Phe Met Ile Ile Leu Glu Lys Lys Phe Ser Phe Pro Gln Cys
740 745 750
Gly Ser Leu Arg Arg Met Thr Tyr Leu Leu Phe Leu Ser Glu Leu Asp
755 760 765
Thr Leu Cys Pro Gly Gln Pro Cys Pro Trp Ala Ala Thr Ala His Gln
770 775 780
Ser Trp Lys Glu Ala Gly Pro Gly Gly Leu Gly Arg Arg Gln
785 790 795

<210> 3437

<211> 275

<212> PRT

<213> Homo sapiens

<400> 3437

Met Gly Pro Leu His Ser His Thr Ser Trp Gly Ala Ser Pro Thr Pro

1 5 10 15

Leu Thr Gly Thr Asp Pro Ser His Val Gln Gly Glu Val Leu Lys Glu

20 25 30

Arg Pro Asp Val Val Ala Gly Val Asp Leu Leu His Leu His Leu Arg

35 40 45

Val His Val Ala Val Val His Glu Val His Ile Gly His Phe His Leu

50 55 60

Gly Ser Gly Arg Glu Val Arg Gly Ala Ser Arg Ala Ala Trp Pro Gly

65 70 75 80

Ser Pro Cys His Asn Ala Pro Val Pro Trp Pro Pro Val Pro Ala His

85 90 95

Phe Pro Gly Phe Ala Ser Pro Thr Leu Pro Val Pro Trp Leu Tyr Pro

100 105 110

Pro Leu Arg Pro Ile Ser Ser Arg Leu Ala Gln Ser Pro Asp Pro His

115 120 125

Leu Ser Asp Ala Val Leu Met Arg His His Arg His His Val Leu Gln

130 135 140

Arg Gln Gln Gly Gly Ala Leu Asp Leu Ser Val Asp Val Phe Ala Leu

145 150 155 160

Gly Thr Gly Gly Gln Gln Val His Gln Gly Asn Val Val His Glu Gly

165 170 175

Ala Val Val Leu His Ala Val Ala Gly Gly Leu His His Val Gln Gln

180 185 190

Val Gly Gln Arg Cys Leu Ile Ile Val Glu His Asp His Ile Val Thr

195 200 205

Cys Ile Gly Gln Leu Arg Ala Gly Gly Gly Thr Cys His Thr Leu Ser
 210 215 220
 Val Gln Gln Ala Leu Gly Ser Pro Leu Leu Cys Leu Pro Gly Arg Asn
 225 230 235 240
 Trp Asp Ser Asp His Ser Pro Tyr Leu Lys Ser Gly Lys Pro Ser Pro
 245 250 255
 Gly Trp Asp Leu Gly Val Pro Gln Leu Met Ser Gln Ala Leu Cys Gln
 260 265 270
 Gln Arg Tyr
 275

<210> 3438

<211> 1508

<212> PRT

<213> Homo sapiens

<400> 3438

Met Phe Pro Ala Arg Gly Val Pro Leu His Leu Glu Gly Glu Gly Val
 1 5 10 15
 Phe Pro Trp Gly Pro Gly Asp Val Ser Leu Pro Tyr Leu Ser Thr Ser
 20 25 30
 Asp Val Ser Phe Ser Val Ile Val Glu Asn Val Asn Cys Tyr Ser Ser
 35 40 45
 Gly Met Ile Cys Arg Lys Phe Ile Ser Ile Asn Val Gly Asn Ser Leu
 50 55 60
 Ile Val Phe Asp Asp Asp Ser Gly Asn Pro Ser Pro Glu Ser Phe Leu
 65 70 75 80
 Asp Asp Lys Gln Glu Val His Thr Trp Arg Val Gly Phe Phe Thr Leu

	85	90	95
Val His Phe Pro Gln Glu His Ile Thr Leu Leu Trp Asp Gln Arg Thr			
	100	105	110
Thr Val His Val Gln Ala Gly Pro Gln Trp Gln Gly Gln Leu Ala Gly			
	115	120	125
Leu Cys Gly Asn Phe Asp Leu Lys Thr Ile Asn Glu Met Arg Thr Pro			
	130	135	140
Glu Asn Leu Glu Leu Thr Asn Pro Gln Glu Phe Gly Ser Ser Trp Ala			
145	150	155	160
Ala Val Glu Cys Pro Asp Thr Leu Asp Pro Arg Asp Met Cys Val Leu			
	165	170	175
Asn Pro Leu Arg Glu Pro Phe Ala Lys Lys Glu Cys Ser Ile Leu Leu			
	180	185	190
Ser Glu Val Phe Glu Ile Cys His Pro Val Val Asp Val Thr Trp Phe			
	195	200	205
Tyr Ser Asn Cys Leu Thr Asp Thr Cys Gly Cys Ser Gln Gly Gly Asp			
	210	215	220
Cys Glu Cys Phe Cys Ala Ser Val Ser Ala Tyr Ala His Gln Cys Cys			
225	230	235	240
Gln His Gly Val Ala Val Asp Trp Arg Thr Pro Arg Leu Cys Leu Leu			
	245	250	255
Gly Lys Gly Pro Tyr Gln Leu Ser Ser Leu Ala Ala Gly Gly Ala Leu			
	260	265	270
Val Gly Met Lys Ala Val Gly Asp Asp Ile Val Leu Val Arg Thr Glu			
	275	280	285
Asp Val Ala Pro Ala Asp Ile Val Ser Phe Leu Leu Thr Ala Ala Leu			
	290	295	300
Tyr Lys Ala Lys Ala His Asp Pro Asp Val Val Ser Leu Glu Ala Ala			
305	310	315	320

Asp Arg Pro Asn Phe Phe Leu His Val Thr Ala Asn Gly Ser Leu Glu
 325 330 335
 Leu Ala Lys Trp Gln Gly Arg Asp Thr Phe Gln Gln His Ala Ser Phe
 340 345 350
 Leu Leu His Arg Gly Thr Arg Gln Ala Gly Leu Val Ala Leu Glu Ser
 355 360 365
 Leu Ala Lys Pro Ser Ser Phe Leu Tyr Val Ser Gly Pro Val Leu Ala
 370 375 380
 Leu Arg Leu Tyr Glu His Thr Glu Val Phe Arg Arg Gly Thr Leu Phe
 385 390 395 400
 Arg Leu Leu Asp Ala Lys Pro Ser Gly Ala Ala Tyr Pro Ile Cys Glu
 405 410 415
 Trp Arg Tyr Asp Ala Cys Ala Ser Pro Cys Phe Gln Thr Cys Arg Asp
 420 425 430
 Pro Arg Ala Ala Ser Cys Arg Asp Val Pro Arg Val Glu Gly Cys Val
 435 440 445
 Pro Val Cys Pro Thr Pro Gln Val Leu Asp Glu Val Thr Gln Arg Cys
 450 455 460
 Val Tyr Leu Glu Asp Cys Val Glu Pro Ala Val Trp Val Pro Thr Glu
 465 470 475 480
 Ala Leu Gly Asn Glu Thr Leu Pro Pro Ser Gln Gly Leu Pro Thr Pro
 485 490 495
 Ser Asp Glu Glu Pro Gln Leu Ser Gln Glu Ser Pro Arg Thr Pro Thr
 500 505 510
 His Arg Pro Ala Leu Thr Pro Ala Ala Pro Leu Thr Thr Ala Leu Asn
 515 520 525
 Pro Pro Val Thr Ala Thr Glu Glu Pro Val Val Ser Pro Gly Pro Thr
 530 535 540
 Gln Thr Thr Leu Gln Gln Pro Leu Glu Leu Thr Ala Ser Gln Leu Pro

545 550 555 560
Ala Gly Pro Thr Glu Ser Pro Ala Ser Lys Gly Val Thr Ala Ser Leu
 565 570 575
Leu Ala Ile Pro His Thr Pro Glu Ser Ser Ser Leu Pro Val Ala Leu
 580 585 590
Gln Thr Pro Thr Pro Gly Met Val Ser Gly Ala Met Glu Thr Thr Arg
 595 600 605
Val Thr Val Ile Phe Ala Gly Ser Pro Asn Ile Thr Val Ser Ser Arg
 610 615 620
Ser Pro Pro Ala Pro Arg Phe Pro Leu Met Thr Lys Ala Val Thr Val
625 630 635 640
Arg Gly His Gly Ser Leu Pro Val Arg Thr Thr Pro Pro Gln Pro Ser
 645 650 655
Leu Thr Ala Ser Pro Ser Ser Arg Pro Val Ala Ser Pro Gly Ala Ile
 660 665 670
Ser Arg Ser Pro Thr Ser Ser Gly Ser His Lys Ala Val Leu Thr Pro
 675 680 685
Ala Val Thr Lys Val Ile Ser Arg Thr Gly Val Pro Gln Pro Thr Gln
 690 695 700
Ala Gln Ser Ala Ser Ser Pro Ser Thr Pro Leu Thr Val Ala Gly Thr
705 710 715 720
Ala Ala Glu Gln Val Pro Val Ser Pro Leu Ala Thr Arg Ser Leu Glu
 725 730 735
Ile Val Leu Ser Thr Glu Lys Gly Glu Ala Gly His Ser Gln Pro Met
 740 745 750
Gly Ser Pro Ala Ser Pro Gln Pro His Pro Leu Pro Ser Ala Pro Pro
 755 760 765
Arg Pro Ala Gln His Thr Thr Met Ala Thr Arg Ser Pro Ala Leu Pro
 770 775 780

Pro Glu Thr Pro Ala Ala Ala Ser Leu Ser Thr Ala Thr Asp Gly Leu
785 790 795 800
Ala Ala Thr Pro Phe Met Ser Leu Glu Ser Thr Arg Pro Ser Gln Leu
 805 810 815
Leu Ser Gly Leu Pro Pro Asp Thr Ser Leu Pro Leu Ala Lys Val Gly
 820 825 830
Thr Ser Ala Pro Val Ala Thr Pro Gly Pro Lys Ala Ser Val Ile Thr
 835 840 845
Thr Pro Leu Gln Pro Gln Ala Thr Thr Leu Pro Ala Gln Thr Leu Ser
 850 855 860
Pro Val Leu Pro Phe Thr Pro Ala Ala Met Thr Gln Ala His Pro Pro
865 870 875 880
Thr His Ile Ala Pro Pro Ala Ala Gly Thr Ala Pro Gly Leu Leu Leu
 885 890 895
Gly Ala Thr Leu Pro Thr Ser Gly Val Leu Pro Val Ala Glu Gly Thr
 900 905 910
Ala Ser Met Val Ser Val Val Pro Arg Lys Ser Thr Thr Gly Lys Val
 915 920 925
Ala Ile Leu Ser Lys Gln Val Ser Leu Pro Thr Ser Met Tyr Gly Ser
 930 935 940
Ala Glu Gly Gly Pro Thr Glu Leu Thr Pro Ala Thr Ser His Pro Leu
945 950 955 960
Thr Pro Leu Val Ala Glu Pro Glu Gly Ala Gln Ala Gly Thr Ala Leu
 965 970 975
Pro Val Pro Thr Ser Tyr Ala Leu Ser Arg Val Ser Ala Arg Thr Ala
 980 985 990
Pro Gln Asp Ser Met Leu Val Leu Leu Pro Gln Leu Ala Glu Ala His
 995 1000 1005
Gly Thr Ser Ala Gly Pro His Leu Ala Ala Glu Pro Val Asp Glu Ala

1010 1015 1020
Thr Thr Glu Pro Ser Gly Arg Ser Ala Pro Ala Leu Ser Ile Val Glu
1025 1030 1035 1040
Gly Leu Ala Glu Ala Leu Ala Thr Thr Thr Glu Ala Asn Thr Ser Thr
1045 1050 1055
Thr Cys Val Pro Ile Ala Glu Gln Asp Cys Val Arg His Ile Cys Leu
1060 1065 1070
Glu Gly Gln Leu Ile Arg Val Asn Gln Ser Gln His Cys Pro Gln Gly
1075 1080 1085
Ala Ala Pro Pro Arg Cys Gly Ile Leu Gly Leu Ala Val Arg Val Gly
1090 1095 1100
Gly Asp Arg Cys Cys Pro Leu Trp Glu Cys Ala Cys Arg Cys Ser Ile
1105 1110 1115 1120
Phe Pro Asp Leu Ser Phe Ala Thr Phe Asp Gly Ser His Val Ala Leu
1125 1130 1135
Phe Lys Glu Ala Ile Tyr Ile Leu Ser Gln Ser Pro Asp Glu Met Leu
1140 1145 1150
Thr Val His Val Leu Asp Cys Lys Ser Ala Asn Leu Gly His Leu Asn
1155 1160 1165
Trp Pro Pro Phe Cys Leu Val Met Leu Asn Met Thr His Leu Ala His
1170 1175 1180
Gln Val Thr Ile Asp Arg Phe Asn Arg Lys Val Thr Val Asp Leu Gln
1185 1190 1195 1200
Pro Val Trp Pro Pro Val Ser Arg Tyr Gly Phe Arg Ile Glu Asp Thr
1205 1210 1215
Gly His Met Tyr Met Ile Leu Thr Pro Ser Asp Ile Gln Ile Gln Trp
1220 1225 1230
Leu His Ser Ser Gly Leu Met Ile Val Glu Ala Ser Lys Thr Ser Lys
1235 1240 1245

Ala Gln Gly His Gly Leu Cys Gly Ile Cys Asp Gly Asp Ala Ala Asn
 1250 1255 1260
 Asp Leu Thr Leu Lys Asp Gly Ser Val Val Gly Gly Ala Glu Asp Pro
 1265 1270 1275 1280
 Ala Pro Phe Leu Asp Ser Trp Gln Val Pro Ser Ser Leu Thr Ser Val
 1285 1290 1295
 Gly Gln Thr Arg Phe Arg Pro Asp Ser Cys Ala Thr Thr Asp Cys Ser
 1300 1305 1310
 Pro Cys Leu Arg Met Val Ser Asn Arg Thr Phe Ser Ala Cys His Arg
 1315 1320 1325
 Phe Val Pro Pro Glu Ser Phe Cys Glu Leu Trp Ile Arg Asp Thr Lys
 1330 1335 1340
 Tyr Val Gln Gln Pro Cys Val Ala Leu Thr Val Tyr Val Ala Met Cys
 1345 1350 1355 1360
 His Lys Phe His Val Cys Ile Glu Trp Arg Arg Ser Asp Tyr Cys Pro
 1365 1370 1375
 Phe Leu Cys Ser Ser Asp Ser Thr Tyr Gln Ala Cys Val Thr Ala Cys
 1380 1385 1390
 Glu Pro Pro Lys Thr Cys Gln Asp Gly Ile Leu Gly Pro Leu Asp Pro
 1395 1400 1405
 Glu His Cys Gln Val Leu Gly Glu Gly Cys Val Cys Ser Glu Gly Thr
 1410 1415 1420
 Ile Leu His Arg Arg His Ser Ala Leu Cys Ile Pro Glu Ala Lys Cys
 1425 1430 1435 1440
 Ala Cys Gly Asp Cys Pro Asp Ser Ile Pro Glu Cys Gln Glu Gly Glu
 1445 1450 1455
 Ala Leu Thr Val His Arg Asn Thr Thr Glu Leu Cys Cys Pro Leu Tyr
 1460 1465 1470
 Gln Cys Val Cys Glu Asn Phe Arg Cys Pro Gln Val Gln Cys Gly Leu

1475 1480 1485
 Gly Thr Ala Leu Val Glu Val Trp Ser Pro Asp Arg Cys Cys Pro Tyr
 1490 1495 1500
 Lys Ser Cys Gly
 1505

<210> 3439

<211> 516

<212> PRT

<213> Homo sapiens

<400> 3439

Met Gln Asp Glu Val Gly Gly Phe Gly Thr Gly Arg Leu Gln Val Ala
 1 5 10 15
 Gly Val Arg Val Thr Val Ala Ala Leu Phe Ala Pro Ala Ala Pro Val
 20 25 30
 Val Arg Leu Asn Val Phe Ala Gln Val Val Ala Ala His Glu Ala Leu
 35 40 45
 Val Ala His Arg Thr Gly Glu Ala Leu Leu Ala Arg Val Ser Pro Gln
 50 55 60
 Met Pro Leu Gln Leu Val Arg Ala Arg Glu Ala Leu Ala Ala Glu Glu
 65 70 75 80
 Pro Val Ala His Glu Gly Pro Leu Ala Arg Val Pro Ala Gln Val Arg
 85 90 95
 Leu Gln Val Arg Arg Leu Pro Val His Leu Ala Ala Ala Arg Asn Val
 100 105 110
 Ala Ala Val Gln Ala Leu Ala Pro Gln Ala Arg Pro Gly Arg Ala Gln
 115 120 125

Pro Leu Arg Leu Leu Ala Val Gly Ala Val Ala Gly Gly Ala Ala Arg
 130 135 140
 Val Ala Ala Gly Arg Ala Cys Arg Ala Pro Pro Gly Gly Gly Ser Arg
 145 150 155 160
 Gly Ala Arg Tyr His Gly Ala Gly Gly Gly Gly Cys His Gly Gly Ala
 165 170 175
 Gly Val Arg Ile Gly Gly Gln His Arg Leu Glu Ala Val Leu Gly Gln
 180 185 190
 Gln Val Leu Ala Gly Gly Glu Gln Val Gly Gly Gly Gly Gly Gly Gly
 195 200 205
 Ala Glu Ala Arg Gly Ala Glu Gly Gly Val Arg Glu Arg Ala Glu Val
 210 215 220
 Gly Val Val Gly Ala Gln Leu Arg Val Gln Arg Gly Leu Gly Gly Ala
 225 230 235 240
 Arg Val Gln Arg Ala Leu Glu Pro Pro Ser Gly Val Leu His Phe Gln
 245 250 255
 Pro Arg Ala Arg Ala Ala Val His Val Pro Pro Arg Arg Arg Arg Ala
 260 265 270
 Val Gly His Leu Ala Gly Arg Gln Arg Arg Met Glu Ala Arg Leu Val
 275 280 285
 Pro Gly Leu Val Arg Val Arg His Ala His Ala Arg Val Gln Pro Val
 290 295 300
 Gly Cys Arg Arg Val His Leu Gly Asn Glu Gly Arg Leu Ala Thr Arg
 305 310 315 320
 Leu Leu Arg Gly His Pro Gly Arg Cys Arg Arg Gly Ser Arg Arg Val
 325 330 335
 Gly Glu Glu Ala Ala Val Val Ala Ala Glu Gly Gly Arg Arg Gly Arg
 340 345 350
 Arg Gly Gly Gln Ala Glu Gly Ala Val Gly Gly Ala Arg Ala Ala Arg

355 360 365
Gln Ala Ala Arg Ala Thr Ala Pro Gly Gly His Arg Glu Ala Arg Glu
370 375 380
Ala Gly Ala Glu Val Ala Ala Gly Arg Gly Ala Leu Pro Gly Val Lys
385 390 395 400
Ala Ala Phe Gly Glu Gly Ala Arg Leu Trp Gln Arg Arg Gln Arg Ala
405 410 415
Arg Val Ala Asp Leu Val Ala Gly Arg Arg Gln His Gly Gln Arg Gly
420 425 430
Arg Ser Glu Ala Arg Leu Phe Leu Glu Trp Val Gly Trp Gly Arg Glu
435 440 445
Gln Glu Gly Gly Gly Gln Glu Glu Val Gly Glu Glu Thr Lys Cys Thr
450 455 460
Arg Glu Gln Pro Arg Pro Leu Arg Leu Leu Pro Gly Gly Pro Gly Ser
465 470 475 480
Pro Pro Arg Ala Ser Ser Pro Arg Ala Arg Gly Gly Val Ala Ala Pro
485 490 495
Gly Ala Glu Gln Gly Arg Ser Pro Gly Arg Arg Ser Arg Arg Arg Lys
500 505 510
Val Ala Leu Arg
515

<210> 3440

<211> 203

<212> PRT

<213> Homo sapiens

<400> 3440

Met Pro Leu Leu Ala Ser Pro Gly Pro Ala Pro Ala Cys Trp Arg Pro
 1 5 10 15
 Leu Glu Ala Gln Pro Leu Pro Gln Gln Trp Ala Leu His Ala His Leu
 20 25 30
 Leu Pro Arg Arg Gly Leu Leu Gly Pro Gly Ser Arg Leu Gly Ala Ala
 35 40 45
 Pro Ala Gly Pro Ala Pro Ala Ser Arg Pro Ser Gly Gly Gln Ala His
 50 55 60
 Ala Ser Gly Arg Pro Leu Pro Ala Trp Arg Leu Leu Leu Cys Met Gly
 65 70 75 80
 Ser Arg Ser Cys Thr Ser Ser Ser Arg Ser Leu Gln Ala Gln Leu Phe
 85 90 95
 Leu Pro Ala Ala Ser Ala Gly Pro Asp Cys Arg Gln Val Gly Leu Ser
 100 105 110
 Arg Asp Ser Ser Cys Leu Pro Ala Ala Ser Val Gly Pro Asp Cys His
 115 120 125
 Gln Val Gly Leu Ser Lys Asp Ser Ser Cys Leu Pro Val Thr Ser Val
 130 135 140
 Gly Pro Ser Arg Pro Gln Val Gly Leu Pro Arg Pro Ser Ser Gly Leu
 145 150 155 160
 Ser Ala Ala Ser Pro Ser Ala Lys Val Pro Arg Val Ser Leu Ser Arg
 165 170 175
 Pro Arg Ser Ser Cys Leu Pro Val Ala Ser Phe Gly Pro Ala Gln Phe
 180 185 190
 Met Pro Pro Gly Gly Leu Pro Arg Pro His Phe
 195 200

<210> 3441

<211> 112

<212> PRT

<213> Homo sapiens

<400> 3441

Met Leu His Trp Arg Lys Gln Ser Ser Ala Arg Pro Ser Ala Thr Ala

1 5 10 15

Ser Gln Val His Lys Arg Lys Thr Lys Gln Asn Lys Pro Pro Thr His

20 25 30

Thr His Val Tyr Thr Asp Thr Tyr Met Cys Gly Ile Arg Gly Arg Ala

35 40 45

Arg Val His Phe Pro Gly Gln Thr Trp Asp Ser Lys Pro Asp Phe Gly

50 55 60

Val Ile Gln Ile Thr Phe His Leu Phe Cys Cys Leu Phe Ser Ser Val

65 70 75 80

His Val Lys Asn Gly Pro Gln Pro Thr Gly Asn Trp Phe Gly Tyr Leu

85 90 95

Pro Leu Pro Phe Lys Leu Thr Gln Ala Lys Ile Lys Val Leu Asn Asp

100 105 110

<210> 3442

<211> 1183

<212> PRT

<213> Homo sapiens

<400> 3442

Met Gln Ala Ile Ile Gln Gly Phe Ser Tyr Asp Leu Leu Lys Lys Ile

1 5 10 15

Asp Ser Pro Gln Arg Leu Val Tyr Ser Pro Ser Trp Cys Gly Gly Leu
20 25 30
Val Gln Gly Asn Pro Asn Gly Ser Pro Asn Arg Leu Leu Lys Ala Gly
35 40 45
Val Ile Ser Ala Gln Asn Ile Tyr Ser Phe Gly Phe Gly Lys Phe Tyr
50 55 60
Leu Thr Gly Ala Thr Gln Met Ala Tyr Leu Gly Ser Leu Pro Val Ile
65 70 75 80
Gly Glu Lys Glu Val Ile Gln Ala Asp Asp Glu Pro Thr Phe Ser Phe
85 90 95
Phe Ser Gly Pro Tyr Met Val Met Thr Asn Leu Val Trp Asn Gly Ser
100 105 110
Arg Val Thr Val Lys Glu Leu Asn Leu Pro Thr His Pro His Cys Ser
115 120 125
Arg Leu Arg Leu Ala Asp Leu Leu Ile Ala Glu Gln Glu His Ser Ser
130 135 140
Lys Leu Arg His Pro Tyr Leu Leu Gln Leu Met Ala Val Cys Leu Ser
145 150 155 160
Gln Asp Leu Glu Lys Thr Arg Leu Val Tyr Glu Arg Ile Thr Ile Gly
165 170 175
Thr Leu Phe Ser Val Leu His Glu Arg Arg Ser Gln Phe Pro Val Leu
180 185 190
His Met Glu Val Ile Val His Leu Leu Leu Gln Ile Ser Asp Ala Leu
195 200 205
Arg Tyr Leu His Phe Gln Gly Phe Ile His Arg Ser Leu Ser Ser Tyr
210 215 220
Ala Val His Ile Ile Ser Pro Gly Glu Ala Arg Leu Thr Asn Leu Glu
225 230 235 240
Tyr Met Leu Glu Ser Glu Asp Arg Gly Val Gln Arg Asp Leu Thr Arg

245	250	255
Val Pro Leu Pro Thr Gln Leu Tyr Asn Trp Ala Ala Pro Glu Val Ile		
260	265	270
Leu Gln Lys Ala Ala Thr Val Lys Ser Asp Ile Tyr Ser Phe Ser Met		
275	280	285
Ile Met Gln Glu Ile Leu Thr Asp Asp Ile Pro Trp Lys Gly Leu Asp		
290	295	300
Gly Ser Val Val Lys Lys Ala Val Val Ser Gly Asn Tyr Leu Glu Ala		
305	310	315
320		
Asp Val Arg Leu Pro Lys Pro Tyr Tyr Asp Ile Val Lys Ser Gly Ile		
325	330	335
His Val Lys Gln Lys Asp Arg Thr Met Asn Leu Gln Asp Ile Arg Tyr		
340	345	350
Ile Leu Lys Asn Asp Leu Lys Asp Phe Thr Gly Ala Gln Arg Thr Gln		
355	360	365
Pro Thr Glu Ser Pro Arg Val Gln Arg Tyr Gly Leu His Pro Asp Val		
370	375	380
Asn Val Tyr Leu Gly Leu Thr Ser Glu His Pro Arg Glu Thr Pro Asp		
385	390	395
400		
Met Glu Ile Ile Glu Leu Lys Glu Met Gly Ser Gln Pro His Ser Pro		
405	410	415
Arg Val His Ser Leu Phe Thr Glu Gly Thr Leu Asp Pro Gln Ala Pro		
420	425	430
Asp Pro Cys Leu Met Ala Arg Glu Thr Gln Asn Gln Asp Ala Pro Cys		
435	440	445
Pro Ala Pro Phe Met Ala Glu Glu Ala Ser Ser Pro Ser Thr Gly Gln		
450	455	460
Pro Ser Leu Cys Asn Phe Glu Ile Asn Glu Ile Tyr Ser Gly Cys Leu		
465	470	475
480		

Ile Leu Glu Asp Asp Ile Glu Glu Pro Pro Gly Ala Ala Ser Ser Leu			
	485	490	495
Glu Ala Asp Gly Pro Asn Gln Val Asp Glu Leu Lys Ser Met Glu Glu			
	500	505	510
Glu Leu Asp Lys Met Glu Arg Glu Ala Cys Cys Phe Gly Ser Glu Asp			
	515	520	525
Glu Ser Ser Ser Lys Ala Glu Thr Glu Tyr Ser Phe Asp Asp Trp Asp			
	530	535	540
Trp Gln Asn Gly Ser Leu Ser Ser Leu Ser Leu Pro Glu Ser Thr Arg			
	545	550	555
Glu Ala Lys Ser Asn Leu Asn Asn Met Ser Thr Thr Glu Glu Tyr Leu			
	565	570	575
Ile Ser Lys Cys Val Leu Asp Leu Lys Ile Met Gln Thr Ile Met His			
	580	585	590
Glu Asn Asp Asp Arg Leu Arg Asn Ile Glu Gln Ile Leu Asp Glu Val			
	595	600	605
Glu Met Lys Gln Lys Glu Gln Glu Glu Arg Met Ser Leu Trp Ala Thr			
	610	615	620
Ser Arg Glu Phe Thr Asn Ala Tyr Lys Leu Pro Leu Ala Val Gly Pro			
	625	630	635
Pro Ser Leu Asn Tyr Ile Pro Pro Val Leu Gln Leu Ser Gly Gly Gln			
	645	650	655
Lys Pro Asp Thr Ser Gly Asn Tyr Pro Thr Leu Pro Arg Phe Pro Arg			
	660	665	670
Met Leu Pro Thr Leu Cys Asp Pro Gly Lys Gln Asn Thr Asp Glu Gln			
	675	680	685
Phe Gln Cys Thr Gln Gly Ala Lys Asp Ser Leu Glu Thr Ser Arg Ile			
	690	695	700
Gln Asn Thr Ser Ser Gln Gly Arg Pro Arg Glu Ser Thr Ala Gln Ala			

705 710 715 720
Lys Ala Thr Gln Phe Asn Ser Ala Leu Phe Thr Leu Ser Ser His Arg
 725 730 735
Gln Gly Pro Ser Ala Ser Pro Ser Cys His Trp Asp Ser Thr Arg Met
 740 745 750
Ser Val Glu Pro Val Ser Ser Glu Ile Tyr Asn Ala Glu Ser Arg Asn
 755 760 765
Lys Asp Asp Gly Lys Val His Leu Lys Trp Lys Met Glu Val Lys Glu
 770 775 780
Met Ala Lys Lys Ala Ala Thr Gly Gln Leu Thr Val Pro Pro Trp His
785 790 795 800
Pro Gln Ser Ser Leu Thr Leu Glu Ser Glu Ala Glu Asn Glu Pro Asp
 805 810 815
Ala Leu Leu Gln Pro Pro Ile Arg Ser Pro Glu Asn Thr Asp Trp Gln
 820 825 830
Arg Val Ile Glu Tyr His Arg Glu Asn Asp Glu Pro Arg Gly Asn Gly
 835 840 845
Lys Phe Asp Lys Thr Gly Asn Asn Asp Cys Asp Ser Asp Gln His Gly
 850 855 860
Arg Gln Pro Arg Leu Gly Ser Phe Thr Ser Ile Arg His Pro Ser Pro
865 870 875 880
Arg Gln Lys Glu Gln Pro Glu His Ser Glu Ala Phe Gln Ala Ser Ser
 885 890 895
Asp Thr Leu Val Ala Val Glu Lys Ser Tyr Ser Thr Ser Ser Pro Ile
 900 905 910
Glu Glu Asp Phe Glu Gly Ile Gln Gly Ala Phe Ala Gln Pro Gln Val
 915 920 925
Ser Gly Glu Glu Lys Phe Gln Met Arg Lys Ile Leu Gly Lys Asn Ala
 930 935 940

Glu Ile Leu Pro Arg Ser Gln Phe Gln Pro Val Arg Ser Thr Glu Asp
945 950 955 960
Glu Gln Glu Glu Thr Ser Lys Glu Ser Pro Lys Glu Leu Lys Glu Lys
965 970 975
Asp Ile Ser Leu Thr Asp Ile Gln Asp Leu Ser Ser Ile Ser Tyr Glu
980 985 990
Pro Asp Ser Ser Phe Lys Glu Ala Ser Cys Lys Thr Pro Lys Ile Asn
995 1000 1005
His Ala Pro Thr Ser Val Ser Thr Pro Leu Ser Pro Gly Ser Val Ser
1010 1015 1020
Ser Ala Ala Ser Gln Tyr Lys Asp Cys Leu Glu Ser Ile Thr Phe Gln
1025 1030 1035 1040
Val Lys Thr Glu Phe Ala Ser Cys Trp Asn Ser Gln Glu Phe Ile Gln
1045 1050 1055
Thr Leu Ser Asp Asp Phe Ile Ser Val Arg Glu Arg Ala Lys Lys Leu
1060 1065 1070
Asp Ser Leu Leu Thr Ser Ser Glu Thr Pro Pro Ser Arg Leu Thr Gly
1075 1080 1085
Leu Lys Arg Leu Ser Ser Phe Ile Gly Ala Gly Ser Pro Ser Leu Val
1090 1095 1100
Lys Ala Cys Asp Ser Ser Pro Pro His Ala Thr Gln Arg Arg Ser Leu
1105 1110 1115 1120
Pro Lys Val Glu Ala Phe Ser Gln His His Ile Asp Glu Leu Pro Pro
1125 1130 1135
Pro Ser Gln Glu Leu Leu Asp Asp Ile Glu Leu Leu Lys Gln Gln Gln
1140 1145 1150
Gly Ser Ser Thr Val Leu His Glu Asn Thr Ala Ser Asp Gly Gly Gly
1155 1160 1165
Thr Ala Asn Asp Gln Arg His Leu Glu Glu Gln Glu Thr Asp Ser

1170

1175

1180

<210> 3443

<211> 116

<212> PRT

<213> Homo sapiens

<400> 3443

Met Ile Lys Glu Ser Ile Gln Gln Glu Glu Leu Thr Ile Leu Asn Met

1

5

10

15

Tyr Ala Pro Asn Thr Gly Glu Pro Arg Phe Thr Lys Gln Val Leu Arg

20

25

30

Asp Leu Gln Arg Asp Ser Gly Tyr His Thr Thr Ile Val Gly Asp Ile

35

40

45

Asn Thr Pro Leu Ser Ile Leu Asp His Leu Gly Arg Lys Leu Thr Arg

50

55

60

Lys Asp Leu Asn Thr Ala Leu Asp Gln Val Asn Leu Ile Asp Ile Tyr

65

70

75

80

Arg Thr Leu Gln His Glu Thr Thr Asp Tyr Ile Leu Phe Leu Val Ala

85

90

95

Tyr Asp Thr Leu Lys Leu Ile Thr Lys Leu Glu Leu Lys His Ser Ser

100

105

110

Ala Asn Ala Lys

115

<210> 3444

<211> 122°

<212> PRT

<213> Homo sapiens

<400> 3444

Met Thr Thr Pro Ile Leu Phe Phe Phe Ser Lys Ile Val Leu Ala Ile
1 5 10 15
Leu Ile Leu Val Pro Phe His Ile Lys Phe Arg Ile Ser Leu Ser Ile
20 25 30
Ser Thr Lys Arg Pro Ser Asp Thr Leu Leu Glu Ile Val Leu Lys Gln
35 40 45
Leu Thr Ser Leu Arg Gly Ile Asp Ile Phe Thr Ile Leu Gly Leu Ser
50 55 60
Ile His Glu Arg Ile Cys Leu Leu Ile Ile Trp Val Phe Phe Asn Phe
65 70 75 80
Phe Ile Ser Ile Leu His Phe Ser Ala Cys Arg Phe Tyr Thr Tyr Phe
85 90 95
Val Arg Phe Ile Ala Lys Phe Leu Gly Gly Ala Ile Ala Asn Ser Ile
100 105 110
Glu Phe Leu Met Leu Asn Ser Asn Tyr Tyr
115 120

<210> 3445

<211> 799

<212> PRT

<213> Homo sapiens

<400> 3445

Met Ala Leu Thr Thr Gly Lys His Glu Gly Tyr Val His Phe Gly Thr

1	5	10	15
Ile Arg Asp Gly Gln Val Ser Phe Glu Met Leu Pro Arg Gln Trp Ser			
20	25	30	
Val Cys Glu Gln Ile Gly Val Thr Thr Cys Ser Ile Ile Trp Ser Glu			
35	40	45	
Tyr Ile Ala Gly Glu Tyr Thr Leu Leu Leu Leu Val Glu Ser Gly Tyr			
50	55	60	
Gly Asn Ala Ser Lys Arg Phe Gln Val Val Ser Tyr Asn Thr Ala Ser			
65	70	75	80
Asp Asp Leu Glu Leu Leu Tyr His Ile Pro Glu Phe Ile Pro Glu Ala			
85	90	95	
Arg Gly Leu Glu Phe Leu Met Ile Leu Gly Thr Glu Ser Tyr Thr Ser			
100	105	110	
Thr Ala Met Ala Pro Lys Gly Ile Phe Cys Asn Pro Tyr Asn Asn Leu			
115	120	125	
Ile Phe Ile Trp Gly Asn Phe Leu Leu Gln Ser Ser Asn Lys Glu Asn			
130	135	140	
Phe Ile Tyr Leu Ala Asp Phe Pro Lys Glu Leu Ser Ile Lys Tyr Met			
145	150	155	160
Ala Arg Ser Phe Arg Gly Ala Val Ala Ile Val Thr Glu Thr Glu Glu			
165	170	175	
Ile Trp Tyr Leu Leu Glu Gly Ser Tyr Arg Val Tyr Gln Leu Phe Pro			
180	185	190	
Ser Lys Gly Trp Gln Val His Ile Ser Leu Lys Leu Met Gln Gln Ser			
195	200	205	
Ser Leu Tyr Ala Ser Asn Glu Thr Met Leu Thr Leu Phe Tyr Glu Asp			
210	215	220	
Ser Lys Leu Tyr Gln Leu Val Tyr Leu Met Asn Asn Gln Lys Gly Gln			
225	230	235	240

Leu Val Lys Arg Leu Val Pro Val Glu Gln Leu Leu Met Tyr Gln Gln
 245 250 255
 His Thr Ser His Tyr Asp Leu Glu Arg Lys Gly Gly Tyr Leu Met Leu
 260 265 270
 Ser Phe Ile Asp Phe Cys Pro Phe Ser Val Met Arg Leu Arg Ser Leu
 275 280 285
 Pro Ser Pro Gln Arg Tyr Thr Arg Gln Glu Arg Tyr Arg Ala Arg Pro
 290 295 300
 Pro Arg Val Leu Glu Arg Ser Gly Phe His Asn Glu Asn Ser Leu Ala
 305 310 315 320
 Ile Tyr Gln Gly Leu Val Tyr Tyr Leu Leu Trp Leu His Ser Val Tyr
 325 330 335
 Asp Lys Pro Tyr Ala Asp Pro Val His Asp Pro Thr Trp Arg Trp Trp
 340 345 350
 Ala Asn Asn Lys Gln Asp Gln Asp Tyr Tyr Phe Phe Leu Ala Ser Asn
 355 360 365
 Trp Arg Ser Ala Gly Gly Val Ser Ile Glu Met Asp Ser Tyr Glu Lys
 370 375 380
 Ile Tyr Asn Leu Glu Ser Ala Tyr Glu Leu Pro Glu Arg Ile Phe Leu
 385 390 395 400
 Asp Lys Gly Thr Glu Tyr Ser Phe Ala Ile Phe Leu Ser Ala Gln Gly
 405 410 415
 His Ser Phe Arg Thr Gln Ser Glu Leu Gly Thr Ala Phe Gln Leu His
 420 425 430
 Ser Gln Val Asp Val Gly Val Val Leu Ala Asp Pro Gly Cys Ile Glu
 435 440 445
 Ala Ser Val Lys Gln Glu Val Leu Ile Asn Arg Asn Ser Val Leu Phe
 450 455 460
 Ser Ile Thr Leu Lys Asp Lys Lys Leu Cys Tyr Asp Gln Gly Ile Ser

465 470 475 480
Gly His His Leu Met Glu Thr Ser Met Thr Val Asn Val Val Gly Ser
 485 490 495
Ser Gly Leu Cys Phe Gln Glu Thr His Leu Gly Pro His Met Gln Gly
 500 505 510
Asn Leu Met Val Pro Val Phe Ile Gly Cys Pro Pro Gly Lys Arg Leu
 515 520 525
Ala Phe Asp Ile Thr Tyr Thr Leu Glu Tyr Ser Arg Leu Lys Asn Lys
 530 535 540
His Tyr Phe Asp Cys Val Asn Val Asn Pro Glu Met Pro Cys Phe Leu
545 550 555 560
Phe Arg Asp Ile Phe Tyr Pro Phe Phe Leu Ile Gln Asp Leu Val Thr
 565 570 575
Gly Asp Ser Gly Ser Phe Arg Gly Ser Tyr Val Leu Leu Val Val Gly
 580 585 590
Gly Gly Pro Thr Leu Asp Ser Leu Lys Asp Tyr Ser Glu Asp Glu Ile
 595 600 605
Tyr Arg Phe Asn Ser Pro Leu Asp Lys Thr Asn Ser Leu Ile Trp Thr
 610 615 620
Thr Arg Thr Thr Arg Thr Thr Lys Asp Ser Ala Phe His Ile Met Ser
625 630 635 640
His Glu Ser Pro Gly Ile Glu Trp Leu Cys Leu Glu Asn Ala Pro Cys
 645 650 655
Tyr Asp Asn Val Pro Gln Gly Ile Phe Ala Pro Glu Phe Phe Phe Lys
 660 665 670
Val Leu Val Ser Asn Arg Gly Val Asp Thr Ser Thr Tyr Cys Asn Tyr
 675 680 685
Gln Leu Thr Phe Leu Leu His Ile His Gly Leu Pro Leu Ser Pro Lys
 690 695 700

Arg Ala Leu Phe Ile Ile Met Val Ser Ala Ser Val Phe Val Gly Leu
 705 710 715 720
 Val Ile Phe Tyr Ile Ala Phe Cys Leu Leu Trp Pro Leu Val Val Lys
 725 730 735
 Gly Cys Thr Met Ile Arg Trp Lys Ile Asn Asn Leu Ile Ala Ser Glu
 740 745 750
 Ser Tyr Tyr Thr Tyr Ala Ser Ile Ser Gly Ile Ser Ser Met Pro Ser
 755 760 765
 Leu Arg His Ser Arg Met Gly Ser Met Phe Ser Ser Arg Met Thr Glu
 770 775 780
 Asp Arg Ala Glu Pro Lys Glu Ala Val Glu Arg Gln Leu Met Thr
 785 790 795

<210> 3446

<211> 392

<212> PRT

<213> Homo sapiens

<400> 3446

Met Val Leu Met Asp Ile Arg Arg Arg Leu Pro Ala Ile Cys Trp Phe
 1 5 10 15
 Cys Lys Ser Glu Ala Pro Gly Arg Ala Glu Pro Gly Ile Gln Cys Ala
 20 25 30
 Ile Pro Val His Gly Arg Pro Gly Gly Cys Pro Ala Pro Leu Ser Leu
 35 40 45
 Gly Ser Asn Asp Pro Leu Leu Pro Gln Leu Leu Gln Met Glu Gln Val
 50 55 60
 Arg Arg Ile Pro Glu Glu Tyr Ser Leu Gly Arg Met Ala Glu Gly Leu

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Asp Arg Leu Asn Glu Val Lys Ala Ala Leu Asp Asn Leu Arg His Asp
 305 310 315 320
 Pro Glu Ala Ser Val Cys Ile Tyr Ala Ala Gln Val Gln Asp His Ile
 325 330 335
 Leu Ala Ser Cys Trp Gln Asn Ser Trp Leu Pro His Gly Asn Ser Trp
 340 345 350
 Val Cys Tyr Ser Ala Thr Thr His Arg Trp Ser Pro Ser Cys Glu Asn
 355 360 365
 Leu Pro Thr Ser His Gln Arg Arg Ser Trp Ile Met Gln Ala Leu Gly
 370 375 380
 Ser Trp Lys Met Ser Leu Lys Lys
 385 390

<210> 3447

<211> 103

<212> PRT

<213> Homo sapiens

<400> 3447

Met Ala Ile Gly Cys Phe Met Phe Arg Phe Pro Pro Trp Leu Gln Ser
 1 5 10 15
 Leu Thr Glu Asn Leu Cys Ala Arg Pro Cys Ala Ala Ser Phe Thr His
 20 25 30
 Ile Thr Val Leu Thr His Ser Gly Cys Phe Asn Lys Val Pro Ser Thr
 35 40 45
 Gly Trp Leu Ile Asn Asn Thr Asn Gly Phe Leu Thr Val Leu Glu Thr
 50 55 60
 Glu Ser Pro Arg Ser Glu Cys Gln His Gly Gly Ile Leu Val Gly Ala

65 70 75 80
 Leu Leu Arg Val Ala Asp Cys Tyr Leu Leu Thr Met Ser Ser His Arg
 85 90 95
 Gly Arg Gly Lys Arg Ala Leu
 100

<210> 3448

<211> 105

<212> PRT

<213> Homo sapiens

<400> 3448

Met Thr Asp Arg Phe Trp Asp Gln Trp Tyr Leu Trp Tyr Leu Arg Leu
 1 5 10 15
 Leu Arg Leu Leu Asp Arg Ala Leu Ala Ser Leu Arg Gly Phe Gly Lys
 20 25 30
 Asn Glu Ile Lys Leu Leu Met Glu Lys Met Ala Leu Gly Lys Pro Cys
 35 40 45
 Tyr Thr Ala Gln Gly Val Phe Ile Ser Val Arg Asn Ser Leu Gly Val
 50 55 60
 Pro Gly Asp Gln Tyr Gln Val Glu Ala Asp Ser Cys Thr Glu Gln Val
 65 70 75 80
 Lys Gln Gly Pro Tyr Gln Gly Arg Asn Gln Arg Trp Arg Lys Pro Asn
 85 90 95
 Gln His Thr Leu Lys Ala Val Ser His
 100 105

<210> 3449

<211> 146

<212> PRT

<213> Homo sapiens

<400> 3449

Met Pro Arg Arg Gln Pro Leu Ala Gln Asp Cys Ser Pro Phe Gln Ser

1 5 10 15

Trp Ser Ala Gly Pro Trp Leu Pro Gly Glu Arg Ser Lys Gly Leu Ala

20 25 30

Pro Cys Ile His Glu Ala Gln Leu Trp Gly Ala Val Pro Thr Leu Ser

35 40 45

Ala Ile Gly Pro Ala Lys Ala Ser Val Gln Leu Pro Arg Ala Ser Leu

50 55 60

Cys Pro Ala Pro Gln Pro Ala Ser Leu Gln Arg Tyr Leu Leu Lys Ser

65 70 75 80

Pro His Pro Thr Leu Gln Leu Cys Ile Cys Phe Gln Glu Thr His Pro

85 90 95

Arg Thr Val Ser Ser Gly Ser Gly Pro Gly Arg Pro Thr Pro Lys Ala

100 105 110

Asp Val Gly Ala Gly Ser Leu Thr Ser Pro Gly Ala Met Glu Thr Arg

115 120 125

His Ser Trp Glu Met Glu Thr Gly Glu Leu Trp Val Leu Pro Arg His

130 135 140

Lys Arg

145

<210> 3450

<211> 259

<212> PRT

<213> Homo sapiens

<400> 3450

Met Ser Gln Gly Pro Lys Thr Leu Val Lys Glu Trp Arg Ser Gln His

1 5 10 15

Trp Ser Ala Arg Gly Glu Trp Glu Leu Asp Gly Leu Ala Leu Gly Trp

20 25 30

Thr His Gly Leu Gln Pro Gln Leu Ser Cys Ala Val Glu Pro Ser Ser

35 40 45

His Leu Gly Met Ser Cys Pro Leu Arg Leu Pro Gly Ala Gly Arg Pro

50 55 60

Pro Arg Cys Arg Arg Ala Leu Lys Gly Phe Arg Gly Ser Leu Cys Arg

65 70 75 80

Arg Gly Gln Arg Leu Ser Val Ala Ala Glu Gly Cys Gly Gly Pro Gly

85 90 95

Trp Ile Ala Asp Ser Arg Leu Asp Arg Arg Phe Gly Ile Ala Asp Trp

100 105 110

Gly Leu Asp Trp Gly Phe Gly Val Gly Ser Gly Met Trp Gly Leu Asp

115 120 125

Arg Gly Phe Glu Asp Trp Ile Gly Asp Leu Gly Leu Asp Pro Gly Phe

130 135 140

Gly Ala Gly Ser Ala Val Gly Gly Ser Glu Lys Val Thr Glu Ser Ser

145 150 155 160

Pro Cys Ser Gly Ala Gly Gly Trp Gly Ser Glu Lys Ser Pro Pro Pro

165 170 175

Arg Ser Ser Ser Ala Ser Gly Ala Ala Gly Ala Arg Trp Pro Gly Leu

180 185 190

His Arg Pro Arg Leu His Gly Ser Gly Tyr Arg Ile Arg Asp Ala Glu
 195 200 205
 Gln Arg Lys Ile Gln Gly Arg Leu Ser Arg Thr Gly Gly Gly Ala Arg
 210 215 220
 Pro Gly Ala Gln Glu Pro Glu Thr Trp Arg Pro Gly Thr Ser Ser Thr
 225 230 235 240
 Glu Leu Leu Tyr Ile Trp Pro Val Pro Ala Ala Met Trp Lys Trp Ser
 245 250 255
 Leu Ser Trp

<210> 3451

<211> 952

<212> PRT

<213> Homo sapiens

<400> 3451

Met Gly Gln Ile Cys Gln Arg Glu Ser Arg Gln Gly Leu Ala Met Leu
 1 5 10 15
 Pro Arg Leu Phe Leu Asn Pro Trp Arg Gln Val Ile Leu Leu Pro Gln
 20 25 30
 Pro Pro Lys Val Leu Gly Leu Gln Ala Thr Ala Ala Glu Lys Pro Lys
 35 40 45
 Leu His Leu Leu Ala Glu Ser Glu Ile Asp Lys Tyr Leu Tyr Ala Met
 50 55 60
 Arg Leu Ser Asp Glu Thr Leu Ile Asp Ile Met Thr Arg Phe Arg Lys
 65 70 75 80
 Glu Met Lys Asn Gly Leu Ser Arg Asp Phe Asn Pro Thr Ala Thr Val

	85	90	95
Lys Met Leu Pro Thr Phe Val Arg Pro Ile Pro Asp Gly Ser Glu Lys			
	100	105	110
Gly Asp Phe Ile Ala Leu Asp Leu Gly Gly Ser Ser Phe Arg Ile Leu			
	115	120	125
Arg Val Gln Val Asn His Glu Lys Asn Gln Asn Val His Met Glu Ser			
	130	135	140
Glu Val Tyr Asp Thr Pro Glu Asn Ile Val His Gly Ser Gly Ser Gln			
145	150	155	160
Leu Phe Asp His Val Ala Glu Cys Leu Gly Asp Phe Met Glu Lys Arg			
	165	170	175
Lys Ile Lys Asp Lys Lys Leu Pro Val Gly Phe Thr Phe Ser Phe Pro			
	180	185	190
Cys Gln Gln Ser Lys Ile Asp Glu Ala Ile Leu Ile Thr Trp Thr Lys			
	195	200	205
Arg Phe Lys Ala Ser Gly Val Glu Gly Ala Asp Val Val Lys Leu Leu			
	210	215	220
Asn Lys Ala Ile Lys Lys Arg Gly Asp Tyr Asp Ala Asn Ile Val Ala			
225	230	235	240
Val Val Asn Asp Thr Val Gly Thr Met Met Thr Cys Gly Tyr Asp Asp			
	245	250	255
Gln His Cys Glu Val Gly Leu Ile Ile Gly Thr Gly Thr Asn Ala Cys			
	260	265	270
Tyr Met Glu Glu Leu Arg His Ile Asp Leu Val Glu Gly Asp Glu Gly			
	275	280	285
Arg Met Cys Ile Asn Thr Glu Trp Gly Ala Phe Gly Asp Asp Gly Ser			
	290	295	300
Leu Glu Asp Ile Arg Thr Glu Phe Asp Arg Glu Ile Asp Arg Gly Ser			
305	310	315	320

Leu Asn Pro Gly Lys Gln Leu Phe Glu Lys Met Val Ser Gly Met Tyr
325 330 335
Leu Gly Glu Leu Val Arg Leu Ile Leu Val Lys Met Ala Lys Glu Gly
340 345 350
Leu Leu Phe Glu Gly Arg Ile Thr Pro Glu Leu Leu Thr Arg Gly Lys
355 360 365
Phe Asn Thr Ser Asp Val Ser Ala Ile Glu Lys Asn Lys Glu Gly Leu
370 375 380
His Asn Ala Lys Glu Ile Leu Thr Arg Leu Gly Val Glu Pro Ser Asp
385 390 395 400
Asp Asp Cys Val Ser Val Gln His Val Cys Thr Ile Val Ser Phe Arg
405 410 415
Ser Ala Asn Leu Val Ala Ala Thr Leu Gly Ala Ile Leu Asn Arg Leu
420 425 430
Arg Asp Asn Lys Gly Thr Pro Arg Leu Arg Thr Thr Val Gly Val Asp
435 440 445
Gly Ser Leu Tyr Lys Thr His Pro Gln Tyr Ser Arg Arg Phe His Lys
450 455 460
Thr Leu Arg Arg Leu Val Pro Asp Ser Asp Val Arg Phe Leu Leu Ser
465 470 475 480
Glu Ser Gly Ser Gly Lys Gly Ala Ala Met Val Thr Ala Val Ala Tyr
485 490 495
Arg Leu Ala Glu Gln His Arg Gln Ile Glu Glu Thr Leu Ala His Phe
500 505 510
His Leu Thr Lys Asp Met Leu Leu Glu Val Lys Lys Arg Met Arg Ala
515 520 525
Glu Met Glu Leu Gly Leu Arg Lys Gln Thr His Asn Asn Ala Val Val
530 535 540
Lys Met Leu Pro Ser Phe Val Arg Arg Thr Pro Asp Gly Thr Glu Asn

545 550 555 560
Gly Asp Phe Leu Ala Leu Asp Leu Gly Gly Thr Asn Phe Arg Val Leu
 565 570 575
Leu Val Lys Ile Arg Ser Gly Lys Lys Arg Thr Val Glu Met His Asn
 580 585 590
Lys Ile Tyr Ala Ile Pro Ile Glu Ile Met Gln Gly Thr Gly Glu Glu
 595 600 605
Leu Phe Asp His Ile Val Ser Cys Ile Ser Asp Phe Leu Asp Tyr Met
 610 615 620
Gly Ile Lys Gly Pro Arg Met Pro Leu Gly Phe Thr Phe Ser Phe Pro
625 630 635 640
Cys Gln Gln Thr Ser Leu Asp Ala Gly Ile Leu Ile Thr Trp Thr Lys
 645 650 655
Gly Phe Lys Ala Thr Asp Cys Val Gly His Asp Val Val Thr Leu Leu
 660 665 670
Arg Asp Ala Ile Lys Arg Arg Glu Glu Phe Asp Leu Asp Val Val Ala
 675 680 685
Val Val Asn Asp Thr Val Gly Thr Met Met Thr Cys Ala Tyr Gly Glu
 690 695 700
Pro Thr Cys Glu Val Gly Leu Ile Val Gly Thr Gly Ser Asn Ala Cys
705 710 715 720
Tyr Met Glu Glu Met Lys Asn Val Glu Met Val Glu Gly Asp Gln Gly
 725 730 735
Gln Met Cys Ile Asn Met Glu Trp Gly Ala Phe Gly Asp Asn Gly Cys
 740 745 750
Leu Asp Asp Ile Arg Thr His Tyr Asp Arg Leu Val Asp Glu Tyr Ser
 755 760 765
Leu Asn Ala Gly Lys Gln Arg Tyr Glu Lys Met Ile Ser Gly Met Tyr
 770 775 780

Leu Gly Glu Ile Val Arg Asn Ile Leu Ile Asp Phe Thr Lys Lys Gly
785 790 795 800
Phe Leu Phe Arg Gly Gln Ile Ser Glu Thr Leu Lys Thr Arg Gly Ile
805 810 815
Phe Glu Thr Lys Phe Leu Ser Gln Ile Glu Ser Asp Arg Leu Ala Leu
820 825 830
Leu Gln Val Arg Ala Ile Leu Gln Gln Leu Gly Leu Asn Ser Thr Cys
835 840 845
Asp Asp Ser Ile Leu Val Lys Thr Val Cys Gly Val Val Ser Arg Arg
850 855 860
Ala Ala Gln Leu Cys Gly Ala Gly Met Ala Ala Val Val Asp Lys Ile
865 870 875 880
Arg Glu Asn Arg Gly Leu Asp Arg Leu Asn Val Thr Val Gly Val Asp
885 890 895
Gly Thr Leu Tyr Lys Leu His Pro His Phe Ser Arg Ile Met His Gln
900 905 910
Thr Val Lys Glu Leu Ser Pro Lys Cys Asn Val Ser Phe Leu Leu Ser
915 920 925
Glu Asp Gly Ser Gly Lys Gly Ala Ala Leu Ile Thr Ala Val Gly Val
930 935 940
Arg Leu Arg Thr Glu Ala Ser Ser
945 950

<210> 3452

<211> 153

<212> PRT

<213> Homo sapiens

<400> 3452

Met Lys Glu Thr Trp Glu Met Leu Pro Gly Lys Pro Gly Ile Trp Ala

1 5 10 15

Leu Asp His Phe Gly Val Asn Leu Pro Ser Ala His Pro Ser Phe Gly

20 25 30

Gly Ser Trp Gly Glu Glu Lys Cys Ser Arg Thr Met Arg Phe Ala Ala

35 40 45

Ser Gln Gly Lys Leu Asp Leu Asn Gly Tyr Gln Lys Ser Gly Ala Ser

50 55 60

Ser Trp Arg Lys Ala Ala Arg Gly Leu Arg Leu Gln Gly Gly Leu Arg

65 70 75 80

Ser Thr Ala Pro Ser Leu Ser Leu Ser Tyr Pro Val Ala Ser Ser Ile

85 90 95

Pro Ala Gly Arg Leu His Phe Leu Ser Leu Pro Pro Thr Ala Gly Leu

100 105 110

Leu Leu Leu Phe Gly Asp Arg Ile Ser Leu Cys Arg Pro Gly Trp Ser

115 120 125

Ala Val Ala Arg Ser Arg Leu Thr Ala Thr Ser Ala Ser Arg Val Glu

130 135 140

Ala Ile Leu Leu Pro Gln Pro Pro Glu

145 150

<210> 3453

<211> 185

<212> PRT

<213> Homo sapiens

<400> 3453

Met Gly Gly Ser Gly Arg Cys Leu Gly Arg Val Glu Ile Leu His Gln
1 5 10 15
Gly Ala Trp Gly Thr Val Cys Asp Asp Leu Trp Asp Leu Asn Glu Ala
20 25 30
Lys Val Val Cys Arg Gln Leu Gly Phe Gly Gln Ala Val Ser Gly Pro
35 40 45
Gly Glu Ala His Phe Gly Pro Gly Ser Gly Asp Ile Phe Leu Asp Asn
50 55 60
Leu Gln Cys Thr Arg Val Glu His Tyr Leu Gly Gln Cys Thr His Leu
65 70 75 80
Gly Trp Ser Glu His Asn Cys Gly His His Glu Asp Ala Ser Val Ile
85 90 95
Cys Ser Asp Ala Glu Asp Leu Pro Pro Pro Thr Pro Pro Asp Ser Ser
100 105 110
Thr Ala Ser Gln Asp His Ile Lys Gly Gly Ser Asn Ser Cys Gly Gly
115 120 125
Val Ile Ser Ser Leu Ser Gly Ser Phe Ser Ser Pro Gln Tyr Pro Glu
130 135 140
Asn Tyr Pro Thr Asp Ile Gln Cys Val Trp Glu Ile His Met Gly Ala
145 150 155 160
Lys Phe His Ile Glu Leu Ile Ile Pro Ser Leu Lys Val Ile Gln Ser
165 170 175
Lys Asp Arg Arg Leu Cys His Leu His
180 185

<210> 3454

<211> 679

<212> PRT

<213> Homo sapiens

<400> 3454

Met	Leu	Ser	Met	Glu	Asn	Val	Gly	Asn	Tyr	Gln	Gly	Tyr	Ser	Gln	Glu
1				5				10						15	
Thr	Ala	Pro	Lys	Asp	His	Leu	Leu	His	Asp	Pro	Glu	Thr	Ser	Ser	Asp
				20				25						30	
Glu	Asp	Leu	Arg	Ser	Asn	Ser	Glu	Arg	Asp	Leu	Glu	Thr	His	Met	Met
				35				40						45	
His	Leu	Ser	Gly	Asn	Asp	Ser	Gly	Val	Arg	Leu	Gly	Gln	Lys	Gln	Leu
				50				55						60	
Glu	Asn	Ala	Leu	Thr	Val	Arg	Leu	Ser	Lys	Lys	Phe	Glu	Lys	Ile	Asn
				65				70						75	
Glu	Gly	Arg	Met	Pro	Gly	Thr	Val	His	Ser	Ser	Trp	His	Ser	Val	Lys
								85						90	
Gln	Thr	Met	Ser	Leu	Pro	Glu	Lys	Ser	Gln	Ser	Gln	Ile	Lys	His	Gln
				100				105						110	
Asn	Leu	Val	Ala	Leu	Val	Ser	Glu	Asp	His	Cys	Val	Asp	Thr	Ser	Gln
				115				120						125	
Glu	Ile	Ser	Phe	Leu	Ser	Ser	Asn	Lys	Gln	Lys	Met	Leu	Glu	Ala	His
				130				135						140	
Ile	Lys	Thr	Phe	Arg	Met	Arg	Met	Leu	Trp	Gly	Leu	Pro	Cys	Lys	Val
				145				150						155	
Leu	Glu	Ser	Ile	Glu	Ile	Phe	Lys	Ser	Glu	Glu	Asp	Ile	Ser	Asn	Ser
				165				170						175	
Phe	Ser	His	Phe	Tyr	Leu	Pro	Ser	Ser	Ala	Ser	Phe	Ile	Ser	Gln	Gly
				180				185						190	
Asp	Ser	Lys	Asp	Gly	Val	Ser	Lys	Ser	Cys	Arg	Arg	Ser	Thr	Phe	Gln
				195				200						205	

Gly Glu Lys Leu Gly Thr Thr Ser Ser Val Pro Val Leu Asn His Pro
 210 215 220
 Gln Pro Val Ser Ser Pro Ile Gly Lys Glu Gly Gln Gly Thr Leu Arg
 225 230 235 240
 Arg Gln Phe Ser Asp Ile Asp His Asp Leu Ile Glu Thr Asp Ala Lys
 245 250 255
 Asp Gly Ala Ser Thr Pro Leu Arg Arg Gly Thr Thr Tyr Phe Gln Gly
 260 265 270
 Glu Lys Leu Glu Thr Thr Ser Ser Phe Ser Ile Leu Gly His Pro His
 275 280 285
 Leu Val Thr Ser Pro Val Asp Gln Glu Lys Gln Gly Thr Leu Arg Arg
 290 295 300
 Glu Phe Ala Asp Thr Asp Glu Asp Leu Thr Glu Ser Val Trp Thr Thr
 305 310 315 320
 Glu Asp Gly Arg Gln Thr Phe Leu Pro Pro Thr Tyr Ser Ile Ile Asp
 325 330 335
 Glu Val Ser Gln Lys Gln Thr Val Leu Ala Ser Arg Cys Ser Ala Glu
 340 345 350
 Leu Pro Ile Leu Gln Ala Gly Val Gly Arg Asp Ser Arg Asp Lys Arg
 355 360 365
 Glu Ser Ala Ser Asn Asn Val Asn Arg Leu Gln Gly Ser Gly Lys Thr
 370 375 380
 Phe Pro Val Thr Asn Gly Ser Lys Glu Met Phe Lys Glu Glu Glu Ile
 385 390 395 400
 Cys Thr Leu Gln Ser Gln Thr Arg Asn Asn Leu Thr Thr Ser Lys Ser
 405 410 415
 Gly Ser Cys Leu Val Thr Asn Val Lys Arg Ser Thr Ser His Glu Thr
 420 425 430
 Glu Ile Phe Pro Pro Arg Ile Ser Val Pro Gln Thr Pro Lys Ser Ser

435 440 445
Tyr Leu Lys Asn Gln Met Leu Ser Gln Leu Lys Leu Val Gln Arg Lys
450 455 460
His Ser Gln Pro Gln Ser His Phe Thr Gly Met Ser Leu Ala Leu Asp
465 470 475 480
Asn Leu Ser Ser Lys Asp Leu Leu Thr His Ala Gln Gly Ile Ser Asn
485 490 495
Gln Asp Leu Gly Thr Ser Gln Val Leu His Val His Leu Glu Val Arg
500 505 510
Gly Ile Arg Val Ala Gln Gln Gln Glu His Arg Val Pro Thr His Val
515 520 525
Leu Gln Lys Cys Gln Val Lys Asn Phe Ser Pro Ala Ala Lys Arg Val
530 535 540
Ser Pro Leu Arg Pro Asn Gly Gly Glu Leu Gly Gly Gly Asp Ala Gly
545 550 555 560
Leu Gly Thr Ser Gln Leu Thr Arg Lys Ser Leu Pro Val His Asn Lys
565 570 575
Ala Ser Gly Glu Val Pro Gly Ser Lys Ser Ser Pro Thr Leu Lys Thr
580 585 590
Gln Pro Pro Ser Glu Asn Leu Phe Arg Lys Trp Met Gln Thr Leu Leu
595 600 605
Gln Trp Phe Asn Lys Pro Ser Ile Met Cys Glu Glu Gln Glu Ser Ser
610 615 620
Trp Glu Lys Gly Ser Ser Leu Ser Ser Ser Val Gln Asn Arg Ser Arg
625 630 635 640
Val Thr Ser Arg Ala Ala Phe Thr Gly Ala Thr Glu Ala Gln Lys Ile
645 650 655
Arg Lys Asp Thr Gly Glu Phe Leu Glu Glu Lys Leu Gly His Ser His
660 665 670

Gly Ile Asp Ile Thr Cys Pro

675

<210> 3455

<211> 120

<212> PRT

<213> Homo sapiens

<400> 3455

Met Gly Arg Leu Ala Gly Arg Arg Ala Asn Pro Pro His Leu Pro Pro

1 5 10 15

Gly Arg Gly Gly Cys Trp Ala Glu Thr Leu Leu Thr Ser Gln Met Gly

20 25 30

Trp Leu Pro Gly Gly Glu Ala Pro His Phe Ser Asp Gly Ala Ala Ala

35 40 45

Gly Arg Arg Gly Ser Ser Leu Leu Arg Arg Gly Gly Cys Gln Ala Glu

50 55 60

Gly Leu Leu Thr Ser Gln Thr Gly Arg Pro Gly Arg Asp Ala Pro His

65 70 75 80

Leu Pro Asp Gly Val Ser Ala Gly Gln Arg Arg Ser Ser His Pro Arg

85 90 95

Trp Gly Gly Gly Ala Glu Ala Leu Pro Thr Ser Gln Thr Met Gly Gly

100 105 110

Arg Ala Glu Thr Leu Leu Thr Ser

115 120

<210> 3456

<211> 150

<212> PRT

<213> Homo sapiens

<400> 3456

Met Val Gln Ala Ser Gly His Arg Arg Ser Thr Arg Gly Ser Lys Met

1 5 10 15

Val Ser Trp Ser Val Ile Ala Lys Ile Gln Glu Ile Trp Cys Glu Glu

20 25 30

Asp Glu Arg Lys Met Ala Arg Glu Phe Leu Ala Glu Phe Met Ser Thr

35 40 45

Tyr Val Met Met Glu Trp Leu Thr Gly Met Leu Gln Leu Cys Leu Phe

50 55 60

Ala Ile Val Asp Gln Glu Asn Asn Pro Ala Leu Pro Gly Thr His Ala

65 70 75 80

Leu Val Ile Gly Ile Leu Val Val Ile Ile Arg Val Tyr His Gly Met

85 90 95

Asn Thr Gly Tyr Ala Ile Asn Pro Ser Arg Asp Leu Pro Pro Pro His

100 105 110

Leu His Leu His Cys Trp Leu Gly Gln Thr Gly Leu Gln Val Leu Pro

115 120 125

Leu Pro Arg Pro Ile Pro Leu Arg Phe Ser Val Gly Pro Leu Cys Val

130 135 140

Glu Val Trp Gly Val Met

145 150

<210> 3457

<211> 190

<212> PRT

<213> Homo sapiens

<400> 3457

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Met Gly Pro Gly Ile Val Leu Val Ser Ser His Gly Lys Met Leu Asp
  1             5             10             15
Leu Thr Met Thr Arg Ala Ala Lys Ile Gly Leu Tyr Leu Ser Glu Pro
      20             25             30
Ile Glu Ser Ser Thr Ser Thr Thr Arg Gly Phe Tyr Cys Leu Ser Gln
      35             40             45
Leu Gln Gln His Asn Met Arg Gln Gly Pro Arg Thr Ala Glu Leu Cys
      50             55             60
Thr Val Phe Arg Arg Gly Cys Glu Leu Leu Leu Cys Arg Val Gly Arg
      65             70             75             80
Cys Phe Arg Ala Leu Gln Ala Pro Cys Arg Pro Leu Leu Thr Val His
      85             90             95
Gly Leu His Leu Pro Tyr Leu Leu Ser Cys Pro Ile Ser Cys Ser Trp
      100            105            110
Leu Trp Phe Pro Glu Gly Ser Arg Leu His Arg Leu Pro Cys Val Leu
      115            120            125
Thr Leu Trp Trp Val Cys Lys Trp Gln Ser Pro Gly Lys Glu Thr Gly
      130            135            140
Glu His Gly His Gly Ser Ser Gly Gly His Gly Gly Phe Arg Leu Pro
      145            150            155            160
Pro Arg Ser Thr Cys Phe Ile Ser Ser Gly His Gln Asp Cys Ile Thr
      165            170            175
Arg Thr Met Thr Thr Leu Arg Ala Leu Leu Gln Leu Lys Thr
      180            185            190

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<210> 3458

<211> 286

<212> PRT

<213> Homo sapiens

<400> 3458

Met Arg Thr Pro Tyr Thr Thr Ser Leu Thr Arg Thr Pro His Thr Thr

1 5 10 15

Ser Leu Thr Arg Ile Leu Tyr Thr Thr Ser Leu Thr Arg Pro Pro Thr

20 25 30

Arg Ala Ser Pro Thr Arg Met Pro Pro Arg Ala Ser Pro Thr Arg Thr

35 40 45

Pro Pro Arg Ala Ser Pro Arg Arg Thr Pro Pro Arg Ala Ser Pro Arg

50 55 60

Arg Thr Pro Pro Arg Ala Ser Leu Thr Arg Pro Pro Thr Arg Ala Pro

65 70 75 80

Pro Thr Arg Met Pro Pro Thr Ala Pro Pro Thr Arg Thr Pro Pro Thr

85 90 95

Ala Ser Pro Ala Arg Thr Pro Pro Thr Glu Ser Pro Ala Arg Thr Pro

100 105 110

Pro Thr Ala Ser Pro Ala Arg Thr Pro Pro Arg Ala Ser Pro Thr Arg

115 120 125

Thr Pro Pro Arg Ala Ser Pro Arg Arg Thr Pro Ser Thr Ala Ser Pro

130 135 140

Thr Arg Thr Pro Pro Arg Ala Ser Pro Arg Arg Thr Pro Pro Arg Ala

145 150 155 160

Ser Pro Thr Arg Thr Pro Pro Arg Ala Ser Pro Lys Arg Thr Pro Pro

165 170 175

Arg Ala Ser Pro Arg Arg Thr Pro Pro Arg Ala Ser Pro Thr Arg Ala
 180 185 190
 Pro Pro Arg Ala Ser Pro Lys Arg Thr Pro Pro Thr Ala Ser Pro Thr
 195 200 205
 Arg Thr Pro Pro Arg Ala Ser Pro Thr Arg Thr Pro Pro Thr Glu Ser
 210 215 220
 Pro Ala Arg Thr Pro Pro Arg Ala Ser Pro Thr Arg Thr Pro Pro Thr
 225 230 235 240
 Glu Ser Pro Ala Arg Thr Pro Ser Arg Ala Ser Thr Arg Arg Thr Pro
 245 250 255
 Pro Arg Ala Ser Pro Thr Arg Thr Pro Pro Arg Ala Ser Pro Lys Arg
 260 265 270
 Thr Pro Pro Thr Ala Ser Pro Thr Ser Cys Ile Arg His Arg
 275 280 285

<210> 3459

<211> 1172

<212> PRT

<213> Homo sapiens

<400> 3459

Met Phe Gly Pro Ser Val Glu Phe Thr Ser Val Leu Lys Pro Val Phe
 1 5 10 15
 Ala Arg Glu Lys Glu Pro Phe Ser Leu Ser Cys Leu Phe Ser Glu Asp
 20 25 30
 Val Leu Asp Ala Glu Ser Ile Gln Trp Phe Arg Asp Gly Ser Leu Leu
 35 40 45
 Arg Ser Ser Arg Arg Arg Lys Ile Leu Tyr Thr Asp Arg Gln Ala Ser

50	55	60
Leu Lys Val Ser Cys Thr Tyr Lys Glu Asp Glu Gly Leu Tyr Thr Val		
65	70	75
Arg Val Pro Ser Pro Phe Gly Pro Arg Glu Gln Ser Thr Tyr Val Leu		
85	90	95
Val Arg Asp Ala Glu Ala Glu Asn Pro Gly Ala Pro Gly Ser Pro Leu		
100	105	110
Asn Val Arg Cys Leu Asp Val Asn Arg Asp Cys Leu Ile Leu Thr Trp		
115	120	125
Ala Pro Pro Ser Asp Thr Arg Gly Asn Pro Ile Thr Ala Tyr Thr Ile		
130	135	140
Glu Arg Cys Gln Gly Glu Ser Gly Glu Trp Ile Ala Cys His Glu Ala		
145	150	155
Pro Gly Gly Thr Cys Arg Cys Pro Ile Arg Gly Leu Val Glu Gly Gln		
165	170	175
Ser Tyr Arg Phe Arg Val Arg Ala Ile Ser Arg Val Gly Ser Ser Val		
180	185	190
Pro Ser Lys Ala Ser Glu Leu Val Val Met Gly Asp His Asp Ala Ala		
195	200	205
Arg Arg Lys Thr Glu Ile Pro Phe Asp Leu Gly Asn Lys Ile Thr Ile		
210	215	220
Ser Thr Asp Ala Phe Glu Asp Thr Val Thr Ile Pro Ser Pro Pro Thr		
225	230	235
Asn Val His Ala Ser Glu Ile Arg Glu Ala Tyr Val Val Leu Ala Trp		
245	250	255
Glu Glu Pro Ser Pro Arg Gly Arg Ala Pro Leu Thr Tyr Ser Leu Glu		
260	265	270
Lys Ser Val Ile Gly Ser Gly Thr Trp Glu Ala Ile Ser Ser Glu Ser		
275	280	285

Pro Val Arg Ser Pro Arg Phe Ala Val Leu Asp Leu Glu Lys Lys Lys
290 295 300
Ser Tyr Val Phe Arg Val Arg Ala Met Asn Gln Tyr Gly Leu Ser Asp
305 310 315 320
Pro Ser Glu Pro Ser Glu Pro Ile Ala Leu Arg Gly Pro Pro Ala Thr
325 330 335
Leu Pro Pro Pro Ala Gln Val Gln Ala Phe Arg Asp Thr Gln Thr Ser
340 345 350
Val Ser Leu Thr Trp Asp Pro Val Lys Asp Pro Glu Leu Leu Gly Tyr
355 360 365
Tyr Ile Tyr Ser Arg Lys Val Gly Thr Ser Glu Trp Gln Thr Val Asn
370 375 380
Asn Lys Pro Ile Gln Gly Thr Arg Phe Thr Val Pro Arg Leu Arg Thr
385 390 395 400
Gly Lys Glu Tyr Glu Phe Cys Val Arg Ser Val Ser Glu Ala Gly Val
405 410 415
Gly Glu Ser Ser Ala Ala Thr Glu Pro Ile Arg Val Lys Gln Ala Leu
420 425 430
Ala Thr Pro Ser Ala Pro Tyr Gly Phe Ala Leu Leu Asn Cys Gly Lys
435 440 445
Asn Glu Met Val Ile Gly Trp Lys Pro Pro Lys Arg Arg Gly Gly Gly
450 455 460
Lys Ile Leu Gly Tyr Phe Leu Asp Gln His Asp Ser Glu Glu Leu Asp
465 470 475 480
Trp His Ala Val Asn Gln Gln Pro Ile Pro Thr Arg Val Cys Lys Val
485 490 495
Ser Asp Leu His Glu Gly His Phe Tyr Glu Phe Arg Ala Arg Ala Ala
500 505 510
Asn Trp Ala Gly Val Gly Glu Leu Ser Ala Pro Ser Ser Leu Phe Glu

515 520 525
Cys Lys Glu Trp Thr Met Pro Gln Pro Gly Pro Pro Tyr Asp Val Arg
530 535 540
Ala Ser Glu Val Arg Ala Thr Ser Leu Val Leu Gln Trp Glu Pro Pro
545 550 555 560
Leu Tyr Met Gly Ala Gly Pro Val Thr Gly Tyr His Val Ser Phe Gln
565 570 575
Glu Glu Gly Ser Glu Gln Trp Lys Pro Val Thr Pro Gly Pro Ile Ser
580 585 590
Gly Thr His Leu Arg Val Ser Asp Leu Gln Pro Gly Lys Ser Tyr Val
595 600 605
Phe Gln Val Gln Ala Met Asn Ser Ala Gly Leu Gly Gln Pro Ser Met
610 615 620
Pro Thr Asp Pro Val Leu Leu Glu Asp Lys Pro Gly Ala His Glu Ile
625 630 635 640
Glu Val Gly Val Asp Glu Glu Gly Phe Ile Tyr Leu Ala Phe Glu Ala
645 650 655
Pro Glu Ala Pro Asp Ser Ser Glu Phe Gln Trp Ser Lys Asp Tyr Lys
660 665 670
Gly Pro Leu Asp Pro Gln Arg Val Lys Ile Glu Asp Lys Val Asn Lys
675 680 685
Ser Lys Val Ile Leu Lys Glu Pro Gly Leu Glu Asp Leu Gly Thr Tyr
690 695 700
Ser Val Ile Val Thr Asp Ala Asp Glu Asp Ile Ser Ala Ser His Thr
705 710 715 720
Leu Thr Glu Glu Glu Leu Glu Lys Leu Lys Lys Leu Ser His Glu Ile
725 730 735
Arg Asn Pro Val Ile Lys Leu Ile Ser Gly Trp Asn Ile Asp Ile Leu
740 745 750

Glu Arg Gly Glu Val Arg Leu Trp Leu Glu Val Glu Lys Leu Ser Pro
755 760 765
Ala Ala Glu Leu His Leu Ile Phe Asn Asn Lys Glu Ile Phe Ser Ser
770 775 780
Pro Asn Arg Lys Ile Asn Phe Asp Arg Glu Lys Gly Leu Val Glu Val
785 790 795 800
Ile Ile Gln Asn Leu Ser Glu Glu Asp Lys Gly Ser Tyr Thr Ala Gln
805 810 815
Leu Arg Asp Gly Lys Ala Lys Asn Gln Ile Thr Leu Thr Leu Val Asp
820 825 830
Asp Asp Phe Asp Lys Leu Leu Arg Lys Ala Asp Ala Lys Arg Arg Asp
835 840 845
Trp Lys Arg Lys Gln Gly Pro Tyr Phe Glu Arg Pro Leu Gln Trp Lys
850 855 860
Val Thr Glu Asp Cys Gln Val Gln Leu Thr Cys Lys Val Thr Asn Thr
865 870 875 880
Lys Lys Glu Thr Arg Phe Gln Trp Phe Phe Gln Arg Ala Glu Met Pro
885 890 895
Asp Gly Gln Tyr Asp Pro Glu Thr Gly Thr Gly Leu Leu Cys Ile Glu
900 905 910
Glu Leu Ser Lys Lys Asp Lys Gly Ile Tyr Arg Ala Met Val Ser Asp
915 920 925
Asp Arg Gly Glu Asp Asp Thr Ile Leu Asp Leu Thr Gly Asp Ala Leu
930 935 940
Asp Ala Ile Phe Thr Glu Leu Gly Arg Ile Gly Ala Leu Ser Ala Thr
945 950 955 960
Pro Leu Lys Ile Gln Gly Thr Glu Glu Gly Ile Arg Ile Phe Ser Lys
965 970 975
Val Lys Tyr Tyr Asn Val Glu Tyr Met Lys Thr Thr Trp Phe His Lys

980	985	990
Asp Lys Arg Leu Glu Ser Gly Asp Arg Ile Arg Thr Gly Thr Thr Leu		
995	1000	1005
Asp Glu Ile Trp Leu His Ile Leu Asp Pro Lys Asp Ser Asp Lys Gly		
1010	1015	1020
Lys Tyr Thr Leu Glu Ile Ala Ala Gly Lys Glu Val Arg Gln Leu Ser		
1025	1030	1035
Thr Asp Leu Ser Gly Gln Ala Phe Glu Asp Ala Met Ala Glu His Gln		
1045	1050	1055
Arg Leu Lys Thr Leu Ala Ile Ile Glu Lys Asn Arg Ala Lys Val Val		
1060	1065	1070
Arg Gly Leu Pro Asp Val Ala Thr Ile Met Glu Asp Lys Thr Leu Cys		
1075	1080	1085
Leu Thr Cys Ile Val Ser Gly Asp Pro Thr Pro Glu Ile Ser Trp Leu		
1090	1095	1100
Lys Asn Asp Gln Pro Val Thr Phe Leu Asp Arg Tyr Arg Met Glu Val		
1105	1110	1115
Arg Gly Thr Glu Val Thr Ile Thr Ile Glu Lys Val Asn Ser Glu Asp		
1125	1130	1135
Ser Gly Arg Tyr Gly Val Phe Val Lys Asn Lys Tyr Gly Ser Glu Thr		
1140	1145	1150
Gly Gln Val Thr Ile Ser Val Phe Lys His Gly Asp Glu Pro Lys Glu		
1155	1160	1165
Leu Lys Ser Met		
1170		

<210> 3460

<211> 167

<212> PRT

<213> Homo sapiens

<400> 3460

Met Leu Leu Ser Asp Ile Leu Leu Ser Met Leu Tyr Ser Asn Phe Leu
1 5 10 15
Pro Leu Ser Phe His Pro Arg Leu Pro Ala Pro Arg Gly Gln Gly Ser
20 25 30
Leu Ser Ile Leu Cys Ser Ala Val Ser Pro Val Pro Ser Val Thr Pro
35 40 45
Ser Thr Trp Met Ala Thr Thr Glu Lys Pro Glu Leu Gly Pro Ala His
50 55 60
Asp Ala Gly Asp Asn Asn Ile Tyr Glu Val Met Pro Ser Pro Val Leu
65 70 75 80
Leu Val Ser Pro Ile Ser Asp Thr Arg Ser Ile Asn Pro Ala Arg Pro
85 90 95
Leu Pro Thr Pro Pro His Leu Gln Ala Glu Pro Glu Asn His His Tyr
100 105 110
Gln Val Trp Ser Trp Glu Leu Gly Gly Val Val Gly Ile Pro Arg Ile
115 120 125
Gln Glu Pro Arg Ser Arg Gly Gly Glu Gly Ser Arg Gln Leu Lys Leu
130 135 140
Gly Ala Phe Leu Pro Ser Ser Pro Gln Ala Ser Arg Ser Leu Leu Ser
145 150 155 160
Lys Lys Pro Lys Pro Pro Pro
165

<210> 3461

<211> 221

<212> PRT

<213> Homo sapiens

<400> 3461

Met Met Arg Trp Asn Phe Ser Pro Glu Asp Leu Ser Ser Ile Phe Arg

1 5 10 15

Asn Asn Ser Thr Leu Pro Lys Ile Thr Val Lys Asn Val Asp Ile Glu

20 25 30

Phe Thr Ile Pro Thr Ala Val Thr Ile Glu Val Glu Pro Ser Pro Val

35 40 45

Gln Gln Asp Asn Pro Pro Ile Ser Ser Glu Gln Ala Asp Phe Ser Leu

50 55 60

Ala Gln Pro Asp Ser Pro Ser Leu Pro Leu Glu Ser Pro Glu Glu Ser

65 70 75 80

Glu Ser Ser Ala Gln Gln Glu Ala Thr Ala Gln Thr Pro Asn Pro Pro

85 90 95

Lys Glu Val Glu Pro Ser Pro Val Gln Gln Glu Phe Pro Ala Glu Pro

100 105 110

Thr Glu Pro Ala Lys Glu Val Glu Pro Ser Ala Thr Gln Gln Glu Ala

115 120 125

Ser Gly His Pro Leu Lys Ser Thr Lys Glu Val Asn Pro Pro Pro Lys

130 135 140

Gln Glu Ile Pro Ala Gln Pro Ser Glu Pro Pro Glu Lys Val Glu Leu

145 150 155 160

Ser Pro Val Leu Gln Gln Ala Pro Thr Gln Leu Leu Glu Pro Leu Lys

165 170 175

Lys Val Glu Cys Ser Pro Val Gln Gln Ala Val Pro Ala Gln Ser Ser

180 185 190

Glu Pro Ser Ile Val Val Glu Pro Ser Pro Val Gln Gln Ile Ala His

195

200

205

Leu Cys Leu Gln Ser Ser Leu Arg Lys Trp Asn Pro Leu

210

215

220

<210> 3462

<211> 153

<212> PRT

<213> Homo sapiens

<400> 3462

Met Ser Gly Ala Cys Thr Ser Tyr Val Ser Ala Glu Gln Glu Val Val

1

5

10

15

Arg Gly Phe Ser Cys Pro Arg Pro Gly Gly Glu Ala Ala Ala Val Phe

20

25

30

Cys Cys Gly Phe Arg Asp His Lys Tyr Cys Cys Asp Asp Pro His Ser

35

40

45

Phe Phe Pro Tyr Glu His Ser Tyr Met Trp Trp Leu Ser Ile Gly Ala

50

55

60

Leu Ile Gly Leu Ser Val Ala Ala Val Val Leu Leu Ala Phe Ile Val

65

70

75

80

Thr Ala Cys Val Leu Cys Tyr Leu Phe Ile Ser Ser Lys Pro His Thr

85

90

95

Lys Leu Asp Leu Gly Leu Ser Leu Gln Thr Ala Gly Pro Val Gln Val

100

105

110

Ala Thr Asn Lys Arg Asn Gln Thr Val Leu Thr Leu Lys Gly Leu Thr

115

120

125

Trp Arg Thr Arg Gln Ala His Lys Trp Pro Gly Gly Pro Val Val Ala

130 135 140
Leu His Gly Ala Leu Gly Arg Lys Lys
145 150

<210> 3463

<211> 928

<212> PRT

<213> Homo sapiens

<400> 3463

Met Ala Val Arg Phe Gln Val Ala Asp Met Glu Glu Leu Thr Ile Trp
1 5 10 15
Glu Gln His Thr Ala Thr Leu Ser Lys Asp Pro Arg Arg Gly Phe Gly
20 25 30
Ile Ala Ile Ser Gly Gly Arg Asp Arg Pro Gly Gly Ser Met Val Val
35 40 45
Ser Asp Val Val Pro Gly Gly Pro Ala Glu Gly Arg Leu Gln Thr Gly
50 55 60
Asp His Ile Val Met Val Asn Gly Val Ser Met Glu Asn Ala Thr Ser
65 70 75 80
Ala Phe Ala Ile Gln Ile Leu Lys Thr Cys Thr Lys Met Ala Asn Ile
85 90 95
Thr Val Lys Arg Pro Arg Arg Ile His Leu Pro Ala Thr Lys Ala Ser
100 105 110
Pro Ser Ser Pro Gly Arg Gln Asp Ser Asp Glu Asp Asp Gly Pro Gln
115 120 125
Arg Val Glu Glu Val Asp Gln Gly Arg Gly Tyr Asp Gly Asp Ser Ser
130 135 140

Ser Gly Ser Gly Arg Ser Trp Asp Glu Arg Ser Arg Arg Pro Arg Pro
145 150 155 160
Gly Arg Arg Gly Arg Ala Gly Ser His Gly Arg Arg Ser Pro Gly Gly
165 170 175
Gly Ser Glu Ala Asn Gly Leu Ala Leu Val Ser Gly Phe Lys Arg Leu
180 185 190
Pro Arg Gln Asp Val Gln Met Lys Pro Val Lys Ser Val Leu Val Lys
195 200 205
Arg Arg Asp Ser Glu Glu Phe Gly Val Lys Leu Gly Ser Gln Ile Phe
210 215 220
Ile Lys His Ile Thr Asp Ser Gly Leu Ala Ala Arg His Arg Gly Leu
225 230 235 240
Gln Glu Gly Asp Leu Ile Leu Gln Ile Asn Gly Val Ser Ser Gln Asn
245 250 255
Leu Ser Leu Asn Asp Thr Arg Arg Leu Ile Glu Lys Ser Glu Gly Lys
260 265 270
Leu Ser Leu Leu Val Leu Arg Asp Arg Gly Gln Phe Leu Val Asn Ile
275 280 285
Pro Pro Ala Val Ser Asp Ser Asp Ser Ser Pro Leu Glu Asp Ile Ser
290 295 300
Asp Leu Ala Ser Glu Leu Ser Gln Ala Pro Pro Ser His Ile Pro Pro
305 310 315 320
Pro Pro Arg His Ala Gln Arg Ser Pro Glu Ala Ser Gln Thr Asp Ser
325 330 335
Pro Val Glu Ser Pro Arg Leu Arg Arg Glu Ser Ser Val Asp Ser Arg
340 345 350
Thr Ile Ser Glu Pro Asp Glu Gln Arg Ser Glu Leu Pro Arg Glu Ser
355 360 365
Ser Tyr Asp Ile Tyr Arg Val Pro Ser Ser Gln Ser Met Glu Asp Arg

370 375 380
Gly Tyr Ser Pro Asp Thr Arg Val Val Arg Phe Leu Lys Gly Lys Ser
385 390 395 400
Ile Gly Leu Arg Leu Ala Gly Gly Asn Asp Val Gly Ile Phe Val Ser
405 410 415
Gly Val Gln Ala Gly Ser Pro Ala Asp Gly Gln Gly Ile Gln Glu Gly
420 425 430
Asp Gln Ile Leu Gln Val Asn Asp Val Pro Phe Gln Asn Leu Thr Arg
435 440 445
Glu Glu Ala Val Gln Phe Leu Leu Gly Pro Pro Pro Gly Glu Glu Met
450 455 460
Glu Leu Val Thr Gln Arg Lys Gln Asp Ile Phe Trp Lys Met Val Gln
465 470 475 480
Ser Arg Val Gly Asp Ser Phe Tyr Ile Arg Thr His Phe Glu Leu Glu
485 490 495
Pro Ser Pro Pro Ser Gly Leu Gly Phe Thr Arg Gly Asp Val Phe His
500 505 510
Val Leu Asp Thr Leu His Pro Gly Pro Gly Gln Ser His Ala Arg Gly
515 520 525
Gly His Trp Leu Ala Val Arg Met Gly Arg Asp Leu Arg Glu Gln Glu
530 535 540
Arg Gly Ile Ile Pro Asn Gln Ser Arg Ala Glu Gln Leu Ala Ser Leu
545 550 555 560
Glu Ala Ala Gln Arg Ala Val Gly Val Gly Pro Gly Ser Ser Ala Gly
565 570 575
Ser Asn Ala Arg Ala Glu Phe Trp Arg Leu Arg Gly Leu Arg Arg Gly
580 585 590
Ala Lys Lys Thr Thr Gln Arg Ser Arg Glu Asp Leu Ser Ala Leu Thr
595 600 605

Arg Gln Gly Arg Tyr Pro Pro Tyr Glu Arg Val Val Leu Arg Glu Ala
610 615 620

Ser Phe Lys Arg Pro Val Val Ile Leu Gly Pro Val Ala Asp Ile Ala
625 630 635 640

Met Gln Lys Leu Thr Ala Glu Met Pro Asp Gln Phe Glu Ile Ala Glu
645 650 655

Thr Val Ser Arg Thr Asp Ser Pro Ser Lys Ile Ile Lys Leu Asp Thr
660 665 670

Val Arg Val Ile Ala Glu Lys Asp Lys His Ala Leu Leu Asp Val Thr
675 680 685

Pro Ser Ala Ile Glu Arg Leu Asn Tyr Val Gln Tyr Tyr Pro Ile Val
690 695 700

Val Phe Phe Ile Pro Glu Ser Arg Pro Ala Leu Lys Ala Leu Arg Gln
705 710 715 720

Trp Leu Ala Pro Ala Ser Arg Arg Ser Thr Arg Arg Leu Tyr Ala Gln
725 730 735

Ala Gln Lys Leu Arg Lys His Ser Ser His Leu Phe Thr Ala Thr Ile
740 745 750

Pro Leu Asn Gly Thr Ser Asp Thr Trp Tyr Gln Glu Leu Lys Ala Ile
755 760 765

Ile Arg Glu Gln Gln Thr Arg Pro Ile Trp Thr Ala Glu Asp Gln Leu
770 775 780

Asp Gly Ser Leu Glu Asp Asn Leu Asp Leu Pro His His Gly Leu Ala
785 790 795 800

Asp Ser Ser Ala Asp Leu Ser Cys Asp Ser Arg Val Asn Ser Asp Tyr
805 810 815

Glu Thr Asp Gly Glu Gly Gly Ala Tyr Thr Asp Gly Glu Gly Tyr Thr
820 825 830

Asp Gly Glu Gly Gly Pro Tyr Thr Asp Val Asp Asp Glu Pro Pro Ala

835	840	845
Pro Ala Leu Ala Arg Ser Ser Glu Pro Val Gln Ala Asp Glu Ser Gln		
850	855	860
Ser Pro Arg Asp Arg Gly Arg Ile Ser Ala His Gln Gly Ala Gln Val		
865	870	875
Asp Ser Arg His Pro Gln Gly Gln Trp Arg Gln Asp Ser Met Arg Thr		
885	890	895
Tyr Glu Arg Glu Ala Leu Lys Lys Lys Phe Met Arg Val His Asp Ala		
900	905	910
Glu Ser Ser Asp Glu Asp Gly Tyr Asp Trp Gly Pro Ala Thr Asp Leu		
915	920	925

<210> 3464

<211> 117

<212> PRT

<213> Homo sapiens

<400> 3464

Met Gln Lys Thr Arg Gln Asn Leu Asp Lys Lys Val Asn Arg Ile Arg
1 5 10 15
Thr Arg Ile Val Thr Pro Glu Arg Arg Glu Arg Leu Arg Gln Ser Gly
20 25 30
Glu Arg Leu Arg Gln Ser Gly Glu Arg Leu Arg Gln Ser Gly Glu Arg
35 40 45
Phe Lys Lys Ser Ile Ser Asn Ala Ala Pro Ser Lys Glu Ala Phe Lys
50 55 60
Met Arg Ser Leu Arg Lys Gly Lys Asp Arg Thr Val Ala Glu Gly Glu
65 70 75 80

Glu Cys Ala Arg Glu Met Gly Val Asp Ile Ile Ala Arg Ser Glu Ser
 85 90 95
 Leu Gly Pro Ile Ser Glu Leu Tyr Ser Asp Glu Leu Ser Val Leu His
 100 105 110
 Leu Phe Ser Leu Phe
 115

<210> 3465

<211> 202

<212> PRT

<213> Homo sapiens

<400> 3465

Met Leu Pro His Leu Phe Leu Glu Pro Ser Tyr Thr Val His Thr Gly
 1 5 10 15
 Pro Ala Gly Ser Ala Arg Asp Pro Arg Trp Asp Cys Leu Arg Lys Gly
 20 25 30
 Glu Gly Ala Ser Trp Ala Trp Ser Thr Gly Gly Thr Gly Gln Ala Arg
 35 40 45
 Pro Gly Ser Lys Leu Ala Pro Gln Ala Gln Lys Lys Gly Glu Gly Pro
 50 55 60
 Ala Lys Leu Thr Gly Arg Gly Met Thr Ala Arg Trp Glu Arg Thr His
 65 70 75 80
 Arg Ala Cys Ser Gln Glu Gln Gly Arg Glu Thr Arg Thr Gly Glu Ala
 85 90 95
 Thr Cys Ala Ser Gln Val Arg Met Glu Gly Glu Leu Ile Trp Gly Ala
 100 105 110
 Gly Cys Arg Val Leu Gly Pro Gly Thr Ser Thr Val Ile Ser Asn Gln

115	120	125
Lys Cys Pro Thr Ala Pro Arg Glu Met Asp Ser Val Met Arg Ser Ala		
130	135	140
Val Arg Asp Ser Lys Ala Ser Ala Pro Leu Gln Thr Gly His Trp Ala		
145	150	155
Cys Leu Cys Ser Arg Ala His Arg Ala Gly Val Lys Ser Val Gly Lys		
165	170	175
Gln Gly His Gln Arg Pro Cys Lys Arg Asp Asp Val His Thr Met Pro		
180	185	190
Thr His His Pro Thr Gln Gln Ser Arg Arg		
195	200	

<210> 3466

<211> 182

<212> PRT

<213> Homo sapiens

<400> 3466

Met Ala Pro Ala Ser Asn Phe Ser Ala Gly Ser Asp Trp His Gly Val
1 5 10 15
Gly Ala Ala Gly Ala Ala Pro Gly Gln His Leu Ala Ser Cys Pro Val
20 25 30
Ala Pro Asp Gly Ser Ser Ala Ser Gly Pro His Phe Leu Leu Ser Thr
35 40 45
Gly Lys Pro Thr Pro Ser Glu Ala Thr Arg Gly Lys Ser Glu Gln Gly
50 55 60
Val Pro Ala Val Pro Thr Ser Gln Arg His Val Leu Trp Pro Leu Thr
65 70 75 80

Gln Pro Met Arg Gln Ser Ser Asp Pro Arg Ala His Phe Pro Gly His
 85 90 95
 Gly Ala Gln Pro Gln Pro Glu Pro Cys Glu Gly Arg Gly Thr Arg Met
 100 105 110
 Thr Thr Trp Gly Thr Met Ala Leu His Thr Trp Ala Leu Tyr Phe Ser
 115 120 125
 Leu Glu Asn Pro Gly Lys Ile Leu Lys Gln Val His Glu Val Leu Ser
 130 135 140
 Leu Cys Ser Lys Gln His Ser Ser Gly Val Gly Thr Lys Gly Ser Thr
 145 150 155 160
 Glu Pro Arg Pro Pro Gln Pro Leu Pro Gly Pro Ile Cys Ala Val Gln
 165 170 175
 Val Ile His Ala Cys Ser
 180

<210> 3467

<211> 734

<212> PRT

<213> Homo sapiens

<400> 3467

Met Asn Gln Cys Pro Val His Phe Ile Gln His Gly Lys Leu Val Arg
 1 5 10 15
 Lys Gln Ser Arg Lys Leu Arg Val Gly Asp Ile Val Met Val Lys Glu
 20 25 30
 Asp Glu Thr Phe Pro Cys Asp Leu Ile Phe Leu Ser Ser Asn Arg Gly
 35 40 45
 Asp Gly Thr Cys His Val Thr Thr Ala Ser Leu Asp Gly Glu Ser Ser

50	55	60
His Lys Thr His Tyr Ala Val Gln Asp Thr Lys Gly Phe His Thr Glu		
65	70	75
Glu Asp Ile Gly Gly Leu His Ala Thr Ile Glu Cys Glu Leu Pro Gln		
85	90	95
Pro Asp Leu Tyr Lys Phe Val Gly Arg Ile Asn Val Tyr Ser Asp Leu		
100	105	110
Asn Asp Pro Val Val Arg Pro Leu Gly Ser Glu Asn Leu Leu Leu Arg		
115	120	125
Gly Ala Thr Leu Lys Asn Thr Glu Lys Ile Phe Gly Val Ala Ile Tyr		
130	135	140
Thr Gly Met Glu Thr Lys Met Ala Leu Asn Tyr Gln Ser Lys Ser Gln		
145	150	155
Lys Arg Ser Ala Val Glu Lys Ser Met Asn Ala Phe Leu Ile Val Tyr		
165	170	175
Leu Cys Ile Leu Ile Ser Lys Ala Leu Ile Asn Thr Val Leu Lys Tyr		
180	185	190
Val Trp Gln Ser Glu Pro Phe Arg Asp Glu Pro Trp Tyr Asn Gln Lys		
195	200	205
Thr Glu Ser Glu Arg Gln Arg Asn Leu Phe Leu Lys Ala Phe Thr Asp		
210	215	220
Phe Leu Ala Phe Met Val Leu Phe Asn Tyr Ile Ile Pro Val Ser Met		
225	230	235
Tyr Val Thr Val Glu Met Gln Lys Phe Leu Gly Ser Tyr Phe Ile Thr		
245	250	255
Trp Asp Glu Asp Met Phe Asp Glu Glu Thr Gly Glu Gly Pro Leu Val		
260	265	270
Asn Thr Ser Asp Leu Asn Glu Glu Leu Gly Gln Val Glu Tyr Ile Phe		
275	280	285

Thr Asp Lys Thr Gly Thr Leu Thr Glu Asn Asn Met Glu Phe Lys Glu
290 295 300
Cys Cys Ile Glu Gly His Val Tyr Val Pro His Val Ile Cys Asn Gly
305 310 315 320
Gln Val Leu Pro Glu Ser Ser Gly Ile Asp Met Ile Asp Ser Ser Pro
325 330 335
Ser Val Asn Gly Arg Glu Arg Glu Glu Leu Phe Phe Arg Ala Leu Cys
340 345 350
Leu Cys His Thr Val Gln Val Lys Asp Asp Asp Ser Val Asp Gly Pro
355 360 365
Arg Lys Ser Pro Asp Gly Gly Lys Ser Cys Val Tyr Ile Ser Ser Ser
370 375 380
Pro Asp Glu Val Ala Leu Val Glu Gly Val Gln Arg Leu Gly Phe Thr
385 390 395 400
Tyr Leu Arg Leu Lys Asp Asn Tyr Met Glu Ile Leu Asn Arg Glu Asn
405 410 415
His Ile Glu Arg Phe Glu Leu Leu Glu Ile Leu Ser Phe Asp Ser Val
420 425 430
Arg Arg Arg Met Ser Val Ile Val Lys Ser Ala Thr Gly Glu Ile Tyr
435 440 445
Leu Phe Cys Lys Gly Ala Asp Ser Ser Ile Phe Pro Arg Val Ile Glu
450 455 460
Gly Lys Val Asp Gln Ile Arg Ala Arg Val Glu Arg Asn Ala Val Glu
465 470 475 480
Gly Leu Arg Thr Leu Cys Val Ala Tyr Lys Arg Leu Ile Gln Glu Glu
485 490 495
Tyr Glu Gly Ile Cys Lys Leu Leu Gln Ala Ala Lys Val Ala Leu Gln
500 505 510
Asp Arg Glu Lys Lys Leu Ala Glu Ala Tyr Glu Gln Ile Glu Lys Asp

515 520 525
Leu Thr Leu Leu Gly Ala Thr Ala Val Glu Asp Arg Leu Gln Glu Lys
530 535 540
Ala Ala Asp Thr Ile Glu Ala Leu Gln Lys Ala Gly Ile Lys Val Trp
545 550 555 560
Val Leu Thr Gly Asp Lys Met Glu Thr Ala Ala Ala Thr Cys Tyr Ala
565 570 575
Cys Lys Leu Phe Arg Arg Asn Thr Gln Leu Leu Glu Leu Thr Thr Lys
580 585 590
Arg Ile Glu Glu Gln Ser Leu His Asp Val Leu Phe Glu Leu Ser Lys
595 600 605
Thr Val Leu Arg His Ser Gly Ser Leu Thr Arg Asp Asn Leu Ser Gly
610 615 620
Leu Ser Ala Asp Met Gln Asp Tyr Gly Leu Ile Ile Asp Gly Ala Ala
625 630 635 640
Leu Ser Leu Ile Met Lys Pro Arg Glu Asp Gly Ser Ser Gly Asn Tyr
645 650 655
Arg Glu Leu Phe Leu Glu Ile Cys Arg Ser Cys Ser Ala Val Leu Cys
660 665 670
Cys Arg Met Ala Pro Leu Gln Lys Ala Gln Ile Val Lys Leu Ile Lys
675 680 685
Phe Ser Lys Glu His Pro Ile Thr Leu Ala Ile Gly Asp Gly Ala Asn
690 695 700
Asp Val Ser Met Ile Leu Glu Ala His Val Gly Ile Gly Glu Leu Arg
705 710 715 720
Pro Cys Cys Trp His Ile Leu Val Ala Arg Ser Pro Leu Arg
725 730

<210> 3468

<211> 316

<212> PRT

<213> Homo sapiens

<400> 3468

Met Glu Gln Ala Tyr Gln Leu Leu Ala Trp Arg Ser Gly Arg Val Val

1 5 10 15

Gly Ser Leu Glu Lys Thr Arg Lys Leu Val Leu Arg Pro Ala Leu Ala

20 25 30

Val Gly Val Thr Ala Val Leu Ser Val Ala Gly Ile Leu Asn Ala Ala

35 40 45

Gln Pro Pro Ala Val Lys Thr Val Glu Val Pro Ile His Gln Leu Pro

50 55 60

Ala Ser Met Asn Asn Leu Lys Ile Val Leu Leu Ser Asp Ile His Leu

65 70 75 80

Gly Pro Thr Val Gly Arg Thr Lys Met Glu Met Phe Val Arg Met Val

85 90 95

Asn Val Leu Glu Pro Asp Ile Thr Val Ile Val Gly Asp Leu Ser Asp

100 105 110

Ser Glu Ala Ser Val Leu Arg Thr Ala Val Ala Pro Leu Gly Gln Leu

115 120 125

His Ser His Leu Gly Ala Tyr Phe Val Thr Gly Asn His Glu Tyr Tyr

130 135 140

Thr Ser Asp Val Ser Asn Trp Phe Ala Leu Leu Glu Ser Leu His Val

145 150 155 160

Gln Pro Leu His Asn Glu Asn Val Lys Ile Ser Ala Thr Arg Ala Gln

165 170 175

Arg Gly Gly Gly Gly Ser Gly Ser Gly Ser Glu Asp Glu Asp Trp Ile

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Pro Ala Pro Ser Pro Ile Trp Arg His Ala Ala Leu Gly Leu Val Thr
 35 40 45
 Leu Cys Leu Met Leu Leu Ile Gly Leu Val Thr Leu Gly Met Met Phe
 50 55 60
 Leu Gln Ile Ser Asn Asp Ile Asn Ser Asp Ser Glu Lys Leu Ser Gln
 65 70 75 80
 Leu Gln Lys Thr Ile Gln Gln Gln Gln Asp Asn Leu Ser Gln Gln Leu
 85 90 95
 Gly Asn Ser Asn Asn Leu Ser Met Glu Glu Glu Phe Leu Lys Ser Gln
 100 105 110
 Ile Ser Ser Leu Leu Lys Arg Gln Glu Gln Met Ala Ile Lys Leu Cys
 115 120 125
 Gln Glu Leu Ile Ile His Thr Ser Asp His Arg Cys Asn Pro Cys Pro
 130 135 140
 Lys Met Trp Gln Trp Tyr Gln Asn Ser Cys Tyr Tyr Phe Thr Thr Asn
 145 150 155 160
 Glu Glu Lys Thr Trp Ala Asn Ser Arg Lys Asp Cys Ile Asp Lys Asn
 165 170 175
 Ser Thr Leu Val Lys Ile Asp Ser Leu Glu Glu Lys Asp Phe Leu Met
 180 185 190
 Ser Gln Pro Leu Leu Met Phe Ser Phe Phe Trp Leu Gly Leu Ser Trp
 195 200 205
 Asp Ser Ser Gly Arg Ser Trp Phe Trp Glu Asp Gly Ser Val Pro Ser
 210 215 220
 Pro Ser Leu Tyr Val Ser Asn Tyr
 225 230

<210> 3470

<211> 459

<212> PRT

<213> Homo sapiens

<400> 3470

Met Gln Ile Lys Gln Glu Gly Glu Leu Gln Leu Gln Glu Gln Gln Ala

1 5 10 15

Leu Gly Val Glu Ala Trp Ala Ala Gly Gln Pro Asp Ile Gly Glu Glu

20 25 30

Pro Trp Gly Leu Ser Gln Leu Asp Ser Gly Ala Gly Asp Ile Ser Thr

35 40 45

Asp Ala Thr Ser Gly Val His Ser Asn Phe Ser Thr Thr Ile Pro Pro

50 55 60

Thr Ser Trp Gln Thr Asp Leu Pro Pro His His Pro Ser Ser Ala Cys

65 70 75 80

Ser Asp Gly Thr Leu Lys Leu Asn Thr Ala Ala Ser Thr Glu Asp Val

85 90 95

Lys Ile Val Ile Lys Thr Glu Val Gln Glu Glu Glu Val Val Ala Thr

100 105 110

Pro Val His Pro Thr Asp Leu Glu Ala His Gly Thr Leu Phe Gly Pro

115 120 125

Gly Gln Ala Thr Arg Phe Phe Pro Ser Pro Ala Gln Glu Gly Ala Trp

130 135 140

Glu Ser Gln Gly Ser Ser Phe Pro Ser Gln Asp Pro Val Leu Gly Leu

145 150 155 160

Arg Glu Pro Ala Arg Pro Glu Arg Asp Met Gly Glu Leu Ser Pro Ala

165 170 175

Val Ala Gln Glu Glu Thr Pro Pro Gly Asp Trp Leu Phe Gly Gly Val

180 185 190

Arg Trp Gly Trp Asn Phe Arg Cys Lys Pro Pro Val Gly Leu Asn Pro
 195 200 205
 Arg Thr Gly Pro Glu Gly Leu Pro Tyr Ser Ser Pro Asp Asn Gly Glu
 210 215 220
 Ala Ile Leu Asp Pro Ser Gln Ala Pro Arg Pro Phe Asn Glu Pro Cys
 225 230 235 240
 Lys Tyr Pro Gly Arg Thr Lys Gly Phe Gly His Lys Pro Gly Leu Lys
 245 250 255
 Lys His Pro Ala Ala Pro Pro Gly Gly Arg Pro Phe Thr Cys Ala Thr
 260 265 270
 Cys Gly Lys Ser Phe Gln Leu Gln Val Ser Leu Ser Ala His Gln Arg
 275 280 285
 Ser Cys Gly Ala Pro Asp Gly Ser Gly Pro Gly Thr Gly Gly Gly Gly
 290 295 300
 Ser Gly Ser Gly Gly Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Arg
 305 310 315 320
 Asp Gly Ser Ala Leu Arg Cys Gly Glu Cys Gly Arg Cys Phe Thr Arg
 325 330 335
 Pro Ala His Leu Ile Arg His Arg Met Leu His Thr Gly Glu Arg Pro
 340 345 350
 Phe Pro Cys Thr Glu Cys Glu Lys Arg Phe Thr Glu Arg Ser Lys Leu
 355 360 365
 Ile Asp His Tyr Arg Thr His Thr Gly Val Arg Pro Phe Thr Cys Thr
 370 375 380
 Val Cys Gly Lys Ser Phe Ile Arg Lys Asp His Leu Arg Lys His Gln
 385 390 395 400
 Arg Asn His Ala Ala Gly Ala Lys Thr Pro Ala Arg Gly Gln Pro Leu
 405 410 415
 Pro Thr Pro Pro Ala Pro Pro Asp Pro Phe Lys Ser Pro Ala Ser Lys

420 425 430
 Gly Pro Leu Ala Ser Thr Asp Leu Val Thr Asp Trp Thr Cys Gly Leu
 435 440 445
 Ser Val Leu Gly Pro Thr Asp Gly Gly Asp Met
 450 455

<210> 3471

<211> 244

<212> PRT

<213> Homo sapiens

<400> 3471

Met Ser Gly Ala Ile Phe Gly Pro Leu Glu Gly Pro Ser Ser Leu Asp
 1 5 10 15
 Ala Pro Ser Ile His Pro Leu Val Cys Pro Leu Cys His Val Gln Tyr
 20 25 30
 Glu Arg Pro Cys Leu Leu Asp Cys Phe His Asp Phe Cys Ala Gly Cys
 35 40 45
 Leu Arg Gly Arg Ala Thr Asp Gly Arg Leu Thr Cys Pro Leu Cys Gln
 50 55 60
 His Gln Thr Val Leu Lys Gly Pro Ser Gly Leu Pro Pro Val Asp Arg
 65 70 75 80
 Leu Leu Gln Phe Leu Val Asp Ser Ser Gly Asp Gly Val Glu Ala Val
 85 90 95
 Arg Cys Ala Asn Cys Asp Leu Glu Cys Ser Glu Gln Ala Gly Ala Ala
 100 105 110
 Gly Arg Val Gly Glu Glu Gln Arg Val Pro Gly Cys Thr Val Pro Asn
 115 120 125

Ala Cys Thr Cys Thr Gln His Val Phe Arg Gly Arg Pro Gly Ser Gly
 130 135 140
 Phe Ser Ser Thr Ser Leu Gly His Leu Gly Pro Lys Cys Glu Pro His
 145 150 155 160
 Tyr Thr Gly Gly Glu Thr Glu Val Gln Asn Lys Gly Leu Glu Pro Val
 165 170 175
 Ser Arg Gln Trp Gln Arg Leu Arg Pro Phe Asp Leu Gly Arg Ala His
 180 185 190
 Trp Ser Pro Ile Gln Gly Gly Val Val Asp Leu His Arg Arg Gly Ser
 195 200 205
 Pro Val Cys Arg Pro Gly Pro Thr Leu Lys Gly Leu Cys Tyr Pro Ser
 210 215 220
 Gly Ile Glu Ala Ala Thr Ala Gln Gly Arg Trp Gly Gln His Ala Val
 225 230 235 240
 Pro Ser Gly Leu

<210> 3472

<211> 136

<212> PRT

<213> Homo sapiens

<400> 3472

Met Leu Glu Arg Asn Leu Thr Ser Met Met Ser Val Glu Glu Pro Leu
 1 5 10 15
 Pro Arg Pro Leu Thr Ser Leu Tyr Ile Arg Leu Ser Ile Leu Glu Arg
 20 25 30
 Asn His Met Asn Met Thr Tyr Met Ala Lys Ser Ser Val Lys Ile His

35	40	45
Ile Ser Lys Val Ile Ile Gly Phe Val Leu Lys Arg Ser Leu Thr Asn		
50	55	60
Val Cys Gly Lys Val Leu Ser Gln Asn Ser His Leu Val Asn His Gln		
65	70	75
Arg Ile His Thr Gly Glu Lys Ser Tyr Arg Cys His Glu Cys Gly Lys		
85	90	95
Ala Phe Thr Gln Gly Ser Arg Phe Ile Asn His Gln Ile Val His Thr		
100	105	110
Gly Glu Asn Phe Pro Asn Val Leu Asn Val Ala Arg Leu Leu Arg Met		
115	120	125
Ala Leu Asn Ser Gly Leu Thr Lys		
130	135	

<210> 3473

<211> 194

<212> PRT

<213> Homo sapiens

<400> 3473

Met Thr Gly Gly Gln Ser Glu Gly Leu Ala Trp Ser Leu Pro Gln Thr		
1	5	10
Lys His Trp Cys Gly Lys Gly Val Val Gly Glu Met Arg Arg His Leu		
20	25	30
Gly Ala Pro Arg Ala Val Leu Tyr Gly Arg Gln Ile Leu Gln Pro Ala		
35	40	45
Val Glu Ala Pro Ser Ser Cys Pro Val Ser Asp Thr Thr Trp Pro Ser		
50	55	60

Gly His Gly Arg Val Thr Gln Leu Leu Gly Pro Tyr Phe Ser Leu Leu
 65 70 75 80
 Glu Lys Gly Val Tyr Glu Glu Trp Ser Leu Gly Ser Val Pro Leu Ser
 85 90 95
 Asp Cys Val Gly Gln Arg Val Gln Gly Arg Gln Ala Gln Lys Gln Lys
 100 105 110
 Ser Lys Met Glu Glu Phe Glu Cys Arg Trp Leu Pro His Gln Cys Pro
 115 120 125
 Leu Gly Leu Gly Trp Phe Pro Ile Trp Glu Gly Pro Gln Gln Asp Ser
 130 135 140
 Ser Ala Arg Thr Lys Glu Ala Val Pro Lys Asp Ala Pro Gln Gln Gln
 145 150 155 160
 Ala Ala Ser Gly Trp Pro Gln Ala Pro Arg Pro Glu Glu Lys Lys Gly
 165 170 175
 Thr Cys Lys Lys Asp His His Lys Arg Gly Gln His Ser Thr Ser His
 180 185 190
 Cys His

<210> 3474

<211> 118

<212> PRT

<213> Homo sapiens

<400> 3474

Met Val Arg Ser Pro Pro His Ala Pro Ser Pro Ser Phe Leu Ser Ser
 1 5 10 15
 Gly Arg Leu Val Pro Asp Ala Gly Ser Ser Pro Leu Pro Cys Leu Cys

20 25 30
 Arg Phe Leu Leu Pro Pro Pro Leu Val Ala Asp Thr Val Pro Gly Leu
 35 40 45
 His Glu Arg Gly Gly Ser Ala Ser Asp Arg Gly Gly Glu Leu Ala Pro
 50 55 60
 Ser Ser Gly Glu Glu Ser Ser Glu His Pro Glu Ala Pro Phe Ser Asp
 65 70 75 80
 Leu Gln Arg Arg Gly Thr Leu Met Gly Trp Ala Leu Arg Thr Ala Arg
 85 90 95
 Gln Leu Ala Ser Arg Asn Leu Gln Glu Arg Ser Ala Cys Trp Ser Arg
 100 105 110
 Thr Leu Gln Lys Val Ala
 115

<210> 3475

<211> 134

<212> PRT

<213> Homo sapiens

<400> 3475

Met Gly Gly Gln Arg Pro Met His Arg Trp Pro Gln Ala His Ala Gly
 1 5 10 15
 His Cys Pro Thr Thr Leu Ala Pro Arg Gln Cys Ser Ala Ser Ala Ala
 20 25 30
 Ala Gln Cys Pro Leu His Val Ala Ser Ala Val Pro Leu Leu Lys Ala
 35 40 45
 Phe Tyr Asp Leu Ser Leu Cys Phe Pro Ser Ser Gln Glu Trp Gln Glu
 50 55 60

Arg Thr Pro Thr Ser Val Gln Pro Val Gly Gly Arg Gln Ser Trp Arg
 65 70 75 80
 Pro Leu Gly Leu Val Leu Arg Thr Ala Ala Ala Thr Ala Pro His Ala
 85 90 95
 Gln Ser Ile Gln Ala Gly Leu Pro Cys Glu Pro Leu Gly Pro Arg Arg
 100 105 110
 Pro Leu Ala Thr Leu His Phe His Ser Arg Gln Gly Pro Arg Trp Gln
 115 120 125
 Gly Gly Pro Ser Trp Ala
 130

<210> 3476

<211> 109

<212> PRT

<213> Homo sapiens

<400> 3476

Met Val Trp Asn Arg Gly Tyr Asn Leu Lys Ala Tyr Gly Lys Phe Ile
 1 5 10 15
 Leu Ile Ala Phe His Leu Phe Leu Leu Glu Val Glu Asn Glu Ala His
 20 25 30
 Ser Gln Arg Ala Lys Pro Arg Gln Arg Pro Gln Asp Leu Phe Trp Arg
 35 40 45
 Trp Lys Leu Val Glu Asn Pro Asp Cys Leu His Gly Leu Pro Ser Arg
 50 55 60
 Pro Gln Arg Asn Thr Asp Ile Asn Phe Thr Leu Arg Ser Leu Leu Glu
 65 70 75 80
 Thr Leu Ile His Lys Asp Asn His Cys Gln Pro Leu Phe Arg Leu Leu

85 90 95
 Gln Glu Pro Ser Ser Lys Ile Lys His Lys Lys Val Phe
 100 105

<210> 3477

<211> 179

<212> PRT

<213> Homo sapiens

<400> 3477

Met Gly Ala Gln Leu His Leu His Ser Gln Gly Val Pro Trp Pro Gly
 1 5 10 15
 Leu Leu Ala Ala Gly Val Arg Phe Ser Ser Trp Pro Leu Gln Gln Ala
 20 25 30
 Ser Pro Gly Phe Ser Trp Trp Leu Gly Ala Arg Arg Ala Ala Pro Met
 35 40 45
 Gln Ser Ala Gly Phe Thr Phe Val Gly Gly Pro Ser Val Glu Ala Ser
 50 55 60
 His Val Ala Arg Pro Arg Thr Arg Trp Glu Arg Thr Ala Gln Val Gln
 65 70 75 80
 Arg Glu Leu Trp Glu Val Trp Leu Thr Thr Leu Arg Glu Cys Gly Ala
 85 90 95
 Arg Lys Asp Leu Met Cys His His Ser Ile Ser Val Met Gly Arg Arg
 100 105 110
 Arg Gln Val Lys Gly Ala Leu Gly Thr Tyr Arg Ala Pro Ala Tyr Trp
 115 120 125
 Pro Gly Thr Val Ile Val Leu Gly Ala Met Cys His Gly Ser Pro Leu
 130 135 140

Arg Gly Arg Gly Glu Ala Gly Gly Asp Arg Ala Ser Val Gly Leu Ser
 145 150 155 160
 Ser Cys Ser Pro Arg Ala Gln Arg Gln Pro Asn Ser Cys Val Gln Ser
 165 170 175
 Glu Ser Thr

<210> 3478

<211> 372

<212> PRT

<213> Homo sapiens

<400> 3478

Met Arg Ala Ile Leu Lys Met Gly Gln Leu Cys Gly Asp His Pro Leu
 1 5 10 15
 Gly Ala Val Thr Phe Arg Cys Val Ala Leu Val Ala Val Trp Leu Cys
 20 25 30
 Gly Thr Ala Thr Arg Ser His Val Gly Lys Asp Ser Cys Gly Leu Gly
 35 40 45
 Thr Glu Leu Ser Leu Leu Gly Val Ser Arg Cys Trp Gly Glu Gly Arg
 50 55 60
 Gln Ser Ser Gln Ser Pro Ser Thr Ala His Pro Ala Ala Arg Pro Trp
 65 70 75 80
 Pro Val Asn Pro Pro Ser Pro Phe Leu Pro Gln Glu Ala Val Glu Lys
 85 90 95
 Val Thr Gln His Ile His Gly Leu Ser Gly Lys Lys Asp Gly Leu Val
 100 105 110
 Pro Met Phe Ile Asn Thr His Ser Gly Leu Phe Thr His Leu Gly Val

115 120 125
Phe Thr Leu Gly Ala Arg Ala Asp Ser Tyr Tyr Glu Tyr Leu Leu Lys
130 135 140
Gln Trp Ile Gln Gly Gly Lys Gln Glu Thr Gln Leu Leu Glu Asp Tyr
145 150 155 160
Val Glu Ala Ile Glu Gly Val Arg Thr His Leu Leu Arg His Ser Glu
165 170 175
Pro Ser Lys Leu Thr Phe Val Gly Glu Leu Ala His Gly Arg Phe Ser
180 185 190
Ala Lys Met Asp His Leu Val Cys Phe Leu Pro Gly Thr Leu Ala Leu
195 200 205
Gly Val Tyr His Gly Leu Pro Ala Ser His Met Glu Leu Ala Gln Glu
210 215 220
Leu Met Glu Thr Cys Tyr Gln Met Asn Arg Gln Met Glu Thr Gly Leu
225 230 235 240
Ser Pro Glu Ile Val His Phe Asn Leu Tyr Pro Gln Pro Gly Arg Arg
245 250 255
Asp Val Glu Val Lys Pro Ala Asp Arg His Asn Leu Leu Arg Pro Glu
260 265 270
Thr Val Glu Ser Leu Phe Tyr Leu Tyr Arg Val Thr Gly Asp Arg Lys
275 280 285
Tyr Gln Asp Trp Gly Trp Glu Ile Leu Gln Ser Phe Ser Arg Phe Thr
290 295 300
Arg Val Pro Ser Gly Gly Tyr Ser Ser Ile Asn Asn Val Gln Asp Pro
305 310 315 320
Gln Lys Pro Glu Pro Arg Asp Lys Met Glu Ser Phe Phe Leu Gly Glu
325 330 335
Thr Leu Lys Tyr Leu Phe Leu Leu Phe Ser Asp Asp Pro Asn Leu Leu
340 345 350

Ser Leu Asp Ala Tyr Val Phe Asn Thr Glu Ala His Pro Leu Pro Ile
355 360 365
Trp Thr Pro Ala
370

<210> 3479

<211> 308

<212> PRT

<213> Homo sapiens

<400> 3479

Met His Thr Gln Val Cys Ala His Thr Tyr Ile Arg Met His Arg His
1 5 10 15
Leu Cys Thr His Met Gln Ile His Pro Gln His Pro Ile Cys Ala Thr
20 25 30
His Arg Arg Arg Tyr Met Glu Thr Asp Ala His Thr Gly Leu Cys Thr
35 40 45
His Ile Arg Met His Arg His Leu Cys Thr His Met Gln Ile His Pro
50 55 60
Gln His Pro Ile Cys Ala Thr His Arg His Arg Tyr Met Lys Thr Asp
65 70 75 80
Ala His Thr Gly Leu Cys Thr His Val Cys Met His Arg His Leu Cys
85 90 95
Thr His Met Gln Met His Pro Gln Tyr Pro Ile Cys Ala Thr His Arg
100 105 110
His Thr Tyr Met Glu Thr Glu Ala His Thr Gly Leu Cys Thr His Val
115 120 125
His Met His Arg His Leu Cys Thr His Met Gln Met His Pro Gln Tyr

130 135 140
Pro Ile Cys Ala Ile His Arg His Thr Tyr Met Glu Thr Asp Ala His
145 150 155 160
Thr Gly Leu Cys Thr His Val His Met His Arg His Leu Cys Thr His
165 170 175
Met Gln Met His Pro Gln Tyr Pro Ile Cys Ala Thr His Arg His Thr
180 185 190
Tyr Met Glu Thr Asp Val His Thr Gly Leu Cys Thr His Val His Met
195 200 205
His Arg His Leu Cys Thr His Met Gln Met His Pro Gln Tyr Pro Ile
210 215 220
Cys Ala Thr His Arg His Thr Tyr Met Glu Thr Asp Ala His Thr Gly
225 230 235 240
Leu Cys Thr His Val His Met His Arg His Leu Cys Thr His Met Gln
245 250 255
Met His Pro Gln Tyr Arg Ile Cys Ala Thr Gln Thr Tyr Val His Gly
260 265 270
Asp Arg Cys Thr Tyr Arg Ser Met His Thr Cys Thr His Ala Gln Ala
275 280 285
Pro Val His Thr Leu Tyr Leu Leu Ile Cys Ser Ser Pro Pro Cys Arg
290 295 300
Leu Leu Gly Arg
305

<210> 3480

<211> 169

<212> PRT

<213> Homo sapiens

<400> 3480

Met Pro Ala Pro Gly Ser His Val Leu Thr Pro Ala Pro Leu Ala Cys
 1 5 10 15
 Thr Pro Gly Asp Arg Leu Asn Glu Arg Val Ala Tyr His Arg Leu Ala
 20 25 30
 Ala Leu Gln His Arg Leu Gly His Gly Glu Leu Ala Glu His Phe Tyr
 35 40 45
 Leu Lys Ala Leu Ser Leu Cys Asn Ser Pro Leu Glu Phe Asp Glu Glu
 50 55 60
 Thr Leu Tyr Tyr Val Lys Val Tyr Leu Val Leu Gly Asp Ile Ile Phe
 65 70 75 80
 Tyr Asp Leu Lys Asp Pro Phe Asp Ala Ala Gly Tyr Tyr Gln Leu Ala
 85 90 95
 Leu Ala Ala Ala Val Asp Leu Gly Asn Lys Lys Ala Gln Leu Lys Ile
 100 105 110
 Tyr Thr Arg Leu Ala Thr Ile Tyr His Asn Phe Leu Leu Asp Arg Glu
 115 120 125
 Lys Ser Leu Phe Phe Tyr Gln Lys Ala Arg Thr Phe Ala Thr Glu Leu
 130 135 140
 Asn Val Arg Arg Val Asn Leu Pro Pro Leu Pro Leu Cys Gly Trp Ala
 145 150 155 160
 Pro Trp Leu Ala Pro Ser His Pro Arg
 165

<210> 3481

<211> 107

<212> PRT

<213> Homo sapiens

<400> 3481

Met	Ala	Val	Phe	Thr	Gln	His	Gly	Ala	Ser	Tyr	Thr	Ser	Thr	Leu	Ala
1				5					10					15	
Leu	Pro	Phe	Leu	Thr	Ser	Phe	His	Gly	Asp	Pro	Phe	Met	Ser	Val	Trp
			20					25					30		
Thr	Ala	Thr	Leu	Phe	Pro	Gln	Leu	His	Gly	Ala	Pro	Arg	Arg	Ser	Gln
			35					40					45		
Leu	Glu	Leu	Pro	Asn	Pro	Met	Thr	Asp	Pro	Phe	Ile	Ala	Ala	Ile	Cys
		50				55					60				
Thr	Arg	Val	Gly	Val	Ser	Ile	Gly	His	Cys	Gln	Ala	Arg	Met	Ala	Gly
		65				70				75				80	
Pro	Lys	His	Val	His	Phe	Ser	Phe	Glu	Ala	Pro	Val	Leu	Arg	Gln	Cys
				85						90				95	
Gly	Leu	Arg	Pro	Trp	Glu	Ser	Cys	Gly	Cys	Gln					
			100							105					

<210> 3482

<211> 148

<212> PRT

<213> Homo sapiens

<400> 3482

Met	Arg	Gly	Ser	Cys	Thr	Pro	Gly	Pro	Cys	Leu	Ser	Trp	Ser	His	Thr
1					5					10				15	
Gly	Cys	Gly	His	Thr	Thr	Ser	Trp	Ser	Ser	Leu	Ser	Gly	Gln	Pro	His
				20						25				30	

Asn Pro Leu Phe Pro Ser Trp Ala Pro Leu Pro Ser Cys Pro Gly Ser
 35 40 45
 Cys Leu Ser Ile Arg Gln Ser Thr Arg Thr Ala Glu Leu Trp Cys Ala
 50 55 60
 Gln His Thr Arg Ile Pro Ala Arg Arg Ser Glu Val Arg Gly Ala Ala
 65 70 75 80
 Leu Gly Thr Gly Pro Ala Gly Glu Gly Pro Gly Arg Trp Arg Asp Ser
 85 90 95
 Leu Gln Lys Ser Ala Val Pro Ser Phe Pro Glu Gly Pro His Gly Phe
 100 105 110
 Pro Tyr Gly Thr Ser Glu Pro Ser Gly Lys Cys Gly Ser Val Lys Glu
 115 120 125
 Gly Thr Gly Ile Pro Phe Ser Ser Pro Thr Ile Glu Pro Tyr Ser Gly
 130 135 140
 His Leu Phe Arg
 145

<210> 3483

<211> 113

<212> PRT

<213> Homo sapiens

<400> 3483

Met Ala Glu Gly Lys Gly Glu Ala Gly Ile Thr Trp Gln Glu Arg Glu
 1 5 10 15
 Gln Asp Arg Gly Gly Gly Ala Ser Gly Ser Ser Lys Gln Pro Asp Leu
 20 25 30
 Val Trp Thr His Arg Val Arg Thr His Ser Leu Leu Gln Gly Gln His

35 40 45
 His Asp Ile His Glu Gly Cys Ala His Met Thr Gln Thr Pro Pro Thr
 50 55 60
 Arg Pro His Leu Gln His Trp Arg Ser His Phe Asn Met Arg Phe Gly
 65 70 75 80
 Gly Gly Lys Thr Cys Lys Pro Tyr Arg Glu Gly Gly Ala Gly Trp Trp
 85 90 95
 Ile Gln Leu His Arg Leu Gly Asn Gly Pro Glu Ala Ala Phe Arg Leu
 100 105 110
 Val

<210> 3484

<211> 198

<212> PRT

<213> Homo sapiens

<400> 3484

Met Lys Gly Pro Leu Cys Cys Leu Ala Leu Arg Ala Trp Gly Cys Arg
 1 5 10 15
 Arg His Ser Ala Val Leu Glu Glu Pro Cys Pro Val Gln Val Pro Leu
 20 25 30
 Leu Pro Pro Leu Gly Ser Ser Ala Arg Trp Pro Ile His Leu Leu Ser
 35 40 45
 Arg Ser Leu Arg Ser Val Ser Leu Val Cys Pro Val Ser Trp Asn Ser
 50 55 60
 Trp Trp Leu Glu Ala His Val Pro Leu Glu Leu Phe Gln Pro Arg Arg
 65 70 75 80

Val Glu Trp Ser Gln Arg Ile Gln Gly Arg Val Gln Gln Pro His Trp
 85 90 95
 Gly Arg Trp Val Ser Leu Gly Leu Gly Asn Asp Ser Ile Gly Ser Leu
 100 105 110
 Ser Met Trp Pro Gly Val Arg Ser Pro Gln Pro Pro Ala Asp Phe His
 115 120 125
 Gln Pro Arg Ala Ser Gly Phe Ala Ala Glu Ala Lys His Gln Arg Leu
 130 135 140
 Gly Ala Ser Pro Thr Cys Trp Cys Ser Ser Leu Leu Arg Ser Ser Gly
 145 150 155 160
 Thr Trp Ala Arg Val Arg Gln Asp Arg Gly Gly Lys Ala Arg Ala Arg
 165 170 175
 His Met Ala Val Gly Ser Leu Arg Ala Ser Gly Gln Ala Asn Phe Gln
 180 185 190
 Cys Leu Met Phe Cys Thr
 195

<210> 3485

<211> 206

<212> PRT

<213> Homo sapiens

<400> 3485

Met His Gln His Pro Trp Thr Arg Ala Arg Thr His Gln His Pro Trp
 1 5 10 15
 Ala Tyr Met Asp Ala His Ile Ser Thr Met Gly Thr His Thr Cys Thr
 20 25 30
 His Ser Arg Trp Leu Arg Leu Ala Gly Cys Leu Leu Arg Pro Arg Val

35	40	45
Ser Lys Ser Gly Gly Arg His Leu Gly Trp Gly His Ser Met Val Leu		
50	55	60
Arg Ser Pro Val Ser Pro Gly Pro Thr Cys Ser Gln Pro Trp Val Pro		
65	70	75
Lys Cys Cys Ser His Trp Ser Leu Cys Pro Thr His His Gly Gln Gly		
85	90	95
Cys Leu Asn Arg Ala Glu Ser Arg Val Met Gln Gly Trp Gly Val Glu		
100	105	110
Ala Leu Pro Arg Gly Ser Ser Gln Leu Trp Leu Gly Trp Ala Leu Pro		
115	120	125
Ser Leu Ser Cys Cys Glu Thr Gln Glu Pro Trp Gly Arg Thr Ala Val		
130	135	140
Cys Ile Arg Ala Val Val Lys Leu Gln Ile Pro Lys Cys Asp Leu Glu		
145	150	155
Thr Thr Leu Ala Gly Glu Ile Tyr Pro Gly Pro Leu Gly Leu Ser Leu		
165	170	175
Pro Ser Pro Ser Thr Val Arg Asp Arg Leu Arg Gly Val Pro Pro His		
180	185	190
Leu Cys Val Ala Ser Ala Gln Gln Ala Cys Pro Ala His Cys		
195	200	205

<210> 3486

<211> 105

<212> PRT

<213> Homo sapiens

<400> 3486

Met Ala Leu Ser His Pro Gln Ala Leu Pro Arg Ser Thr Pro His Thr
 1 5 10 15
 Leu Leu Leu Leu Pro Gly Tyr Asn Asn Gly Asn Gly Pro Gly Thr Gln
 20 25 30
 Pro Gly Arg Gly Arg Arg Gly Trp Gly Gly Trp Gly Arg Gly Gln Gly
 35 40 45
 Pro Arg Ala Thr Leu Trp Val Pro Thr Asp Gly Leu Leu Gly Val His
 50 55 60
 Ser Phe Thr Gln Ser Pro Leu Ser Thr Arg Pro Lys Pro Gly Leu Gly
 65 70 75 80
 Trp Pro Trp Arg Thr Pro Lys Leu Val Lys Gly Gly His Gly Leu Asp
 85 90 95
 Ser Arg Ala Lys Asn Gln Ile Gln Leu
 100 105

<210> 3487

<211> 541

<212> PRT

<213> Homo sapiens

<400> 3487

Met Gln Arg Glu Val Pro Arg Gly Pro Cys Pro Glu Trp Glu Leu Lys
 1 5 10 15
 Ala Val Pro Ser Gln Gln Gln Gly Ile Cys Lys Glu Glu Pro Ala Gln
 20 25 30
 Glu Pro Ile Met Glu Arg Pro Leu Gly Gly Ala Gln Ala Trp Gly Arg
 35 40 45
 Gln Ala Gly Ala Leu Gln Arg Ser Gln Ala Ala Pro Trp Ala Pro Ala

50	55	60
Pro Ala Met Ile Trp Asp Val Pro Val Glu Glu Phe Pro Leu Arg Cys		
65	70	75
Pro Leu Phe Ala Gln Gln Arg Val Pro Glu Gly Gly Pro Leu Leu Asp		
85	90	95
Thr Arg Lys Asn Val Gln Ala Thr Glu Gly Arg Thr Lys Ala Pro Ala		
100	105	110
Arg Leu Cys Ala Gly Glu Asn Ala Ser Thr Pro Ser Glu Pro Glu Lys		
115	120	125
Phe Pro Gln Val Arg Arg Gln Arg Gly Ala Gly Ala Gly Glu Gly Glu		
130	135	140
Phe Val Cys Gly Glu Cys Gly Lys Ala Phe Arg Gln Ser Ser Ser Leu		
145	150	155
Thr Leu His Arg Arg Trp His Ser Arg Glu Lys Ala Tyr Lys Cys Asp		
165	170	175
Glu Cys Gly Lys Ala Phe Thr Trp Ser Thr Asn Leu Leu Glu His Arg		
180	185	190
Arg Ile His Thr Gly Glu Lys Pro Phe Phe Cys Gly Glu Cys Gly Lys		
195	200	205
Ala Phe Ser Cys His Ser Ser Leu Asn Val His Gln Arg Ile His Thr		
210	215	220
Gly Glu Arg Pro Tyr Lys Cys Ser Ala Cys Glu Lys Ala Phe Ser Cys		
225	230	235
Ser Ser Leu Leu Ser Met His Leu Arg Val His Thr Gly Glu Lys Pro		
245	250	255
Tyr Arg Cys Gly Glu Cys Gly Lys Ala Phe Asn Gln Arg Thr His Leu		
260	265	270
Thr Arg His His Arg Ile His Thr Gly Glu Lys Pro Tyr Gln Cys Gly		
275	280	285

Ser Cys Gly Lys Ala Phe Thr Cys His Ser Ser Leu Thr Val His Glu
 290 295 300
 Lys Ile His Ser Gly Asp Lys Pro Phe Lys Cys Ser Asp Cys Glu Lys
 305 310 315 320
 Ala Phe Asn Ser Arg Ser Arg Leu Thr Leu His Gln Arg Thr His Thr
 325 330 335
 Gly Glu Lys Pro Phe Lys Cys Ala Asp Cys Gly Lys Gly Phe Ser Cys
 340 345 350
 His Ala Tyr Leu Leu Val His Arg Arg Ile His Ser Gly Glu Lys Pro
 355 360 365
 Phe Lys Cys Asn Glu Cys Gly Lys Ala Phe Ser Ser His Ala Tyr Leu
 370 375 380
 Ile Val His Arg Arg Ile His Thr Gly Glu Lys Pro Phe Asp Cys Ser
 385 390 395 400
 Gln Cys Trp Lys Ala Phe Ser Cys His Ser Ser Leu Ile Val His Gln
 405 410 415
 Arg Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Ser Glu Cys Gly Arg
 420 425 430
 Ala Phe Ser Gln Asn His Cys Leu Ile Lys His Gln Lys Ile His Ser
 435 440 445
 Gly Glu Lys Ser Phe Lys Cys Glu Lys Cys Gly Glu Met Phe Asn Trp
 450 455 460
 Ser Ser His Leu Thr Glu His Gln Arg Leu His Ser Glu Gly Lys Pro
 465 470 475 480
 Leu Ala Ile Gln Phe Asn Lys His Leu Leu Ser Thr Tyr Tyr Val Pro
 485 490 495
 Gly Ser Leu Leu Gly Ala Gly Asp Ala Gly Leu Arg Asp Val Asp Pro
 500 505 510
 Ile Asp Ala Leu Asp Val Ala Lys Leu Leu Cys Val Val Pro Pro Arg

515 520 525
 Ala Gly Arg Asn Phe Ser Leu Gly Ser Lys Pro Arg Asn
 530 535 540

<210> 3488

<211> 123

<212> PRT

<213> Homo sapiens

<400> 3488

Met Val Ser Glu Thr Asn Val Lys Cys Tyr Lys Gly Arg Asp Thr Gly
 1 5 10 15
 Ile Glu Gly Lys Arg Ile Ile Ile Tyr Val Leu Val Trp Val Ile Gln
 20 25 30
 Lys Thr Asp Ala Lys Ile Gly Leu Lys Val Gln Glu Ile Tyr Trp Gly
 35 40 45
 Lys His Leu Gln Gly Lys Met Gly Leu Gly Ala Gly Gly Cys Trp Gln
 50 55 60
 Ser Trp Gln Thr Pro Val Glu Glu Glu Arg Pro Gly Glu Arg Gly Ser
 65 70 75 80
 Phe Pro Leu Glu Cys Gly Ala Glu Lys Val Ser Ala Lys Pro Leu Gly
 85 90 95
 Ser Gln Cys Cys Pro Ser Asp Glu Ser Leu Pro Cys Ser Gly Ile Gly
 100 105 110
 Trp Lys Gln Gln Val Gly Arg Val Ala Ser Ala
 115 120

<210> 3489

<211> 121

<212> PRT

<213> Homo sapiens

<400> 3489

Met Leu Glu Leu Gly Trp Glu Ala Leu Tyr Glu Gln Arg Ala Glu Pro

1 5 10 15

Arg Ser Gly Phe Glu Glu Leu Asn Asn Glu Asn Lys Ser Thr Leu Gln

20 25 30

Leu Glu Gln Gln Val Lys Glu Leu Glu Lys Ser Gly Gly Ala Glu Glu

35 40 45

Pro Arg Gly Ser Glu Ser Ala Ala Ala Ala Arg Pro Val Pro Gly Ala

50 55 60

Pro Val Pro Gln Gly Ala Trp Met Cys Gly Gln Ala Gly Trp Thr Pro

65 70 75 80

Gln Glu His Pro Gly Leu Ser Gly Glu Ala Val Gly Thr Gly Glu Ala

85 90 95

Ala Gly Gly Ala Gly Glu Ala Ala Cys His Ser Phe Arg Ala Ala Glu

100 105 110

Asn Arg Glu Leu Asn Ile Thr Ile Ile

115 120

<210> 3490

<211> 121

<212> PRT

<213> Homo sapiens

<400> 3490

Met Glu Asp Ile Ile Leu Leu His Leu Glu Ile Pro Leu Ser Asn Arg
 1 5 10 15
 Glu Gly Leu Cys Ile Val Pro Phe Asn Gly Ile Asp Cys His His Leu
 20 25 30
 Gln Thr Glu Cys Leu Pro Ser Pro Ser Cys Cys Phe Gly Met Glu Ala
 35 40 45
 Arg Val Gln Gly Pro Val Asp Arg Ala Cys Ala His Pro Cys Ala Ala
 50 55 60
 Ala Arg Val Leu Leu Thr Phe Asp Phe Ala Ala Thr Gly Ile Ile Gly
 65 70 75 80
 Val Ile Ile Phe Val Ile Phe Pro Arg Val Phe Met Pro Val Arg Leu
 85 90 95
 Ser Ser Leu Thr Phe Glu Met Val Leu Gly Leu Asp Val Val Thr His
 100 105 110
 Thr Cys Asn Leu Ser Thr Leu Gly Val
 115 120

<210> 3491

<211> 155

<212> PRT

<213> Homo sapiens

<400> 3491

Met Ile Pro Pro Pro Gln Ser Ser Gly Asn Ser Ser Cys Arg Ile Pro
 1 5 10 15
 Leu Trp Gly Phe Pro Ser Leu Gly Gln Ser Gln Gly Ala Leu Trp Val
 20 25 30

Cys Pro Gln Thr Gly Leu Pro Gly Ser Gly Ser Arg Pro Pro Leu Pro
 35 40 45
 Gly Ser Pro Gly Asp Pro Pro Thr Arg Gln Gly Gln Gly Arg Ile Trp
 50 55 60
 Leu Val Pro Pro Ala Leu Asp Leu Ser Trp Ile Trp Pro Ala Pro Pro
 65 70 75 80
 Ala Arg Pro Pro Leu Ile Pro Val Thr Ser Met Leu Phe Pro Val Pro
 85 90 95
 Glu Thr Trp Gly Leu Gln Glu Arg Arg Thr His His Asp Arg Ala Asp
 100 105 110
 Pro Gln Tyr Leu Leu Leu Leu Glu Val Gln Leu His Pro Arg Thr Asp
 115 120 125
 Ala Ala Gly Leu Arg Gln Ala Leu Leu Ser Ser His Arg Phe Ser Gly
 130 135 140
 Ala Gly Ser Gly Gly Pro Lys Ser Gln Pro Gly
 145 150 155

<210> 3492

<211> 102

<212> PRT

<213> Homo sapiens

<400> 3492

Met Val Ser Leu Ser Pro Phe Gln Met Arg Thr Leu Glu Pro Arg Asp
 1 5 10 15
 Ile Lys Val Ile Lys Gln Ala Val Ser Ser Gln Ser Ala Lys Pro Gly
 20 25 30
 Leu Ala Trp Ala Lys Val His Ser Phe Asn His Lys Thr Gln Trp Thr

35 40 45
 His Val Lys Ala Ser Thr Thr Tyr Met Ser Met Gly Met Tyr Val Ser
 50 55 60
 Thr His Thr Pro Arg Val Gly Ser Ile His Ser Ser Lys Val Lys Lys
 65 70 75 80
 Asn Lys Arg Gln Lys Asn Leu Lys Ala Ile Tyr Ser Ile Leu Lys Ile
 85 90 95
 Phe Ser Leu Ile Asn Leu
 100

<210> 3493

<211> 134

<212> PRT

<213> Homo sapiens

<400> 3493

Met Pro Val Ile Ile Ile Ser Tyr Phe Gly Gln Leu Asp Leu Leu Ile
 1 5 10 15
 Glu Ala Trp Trp Ala Gln Gln Met Arg Pro Glu Trp Pro Ser Ser Lys
 20 25 30
 His Lys Leu Ala Ser Arg Gln Gln His Ser Ser Lys Arg Ser Arg Thr
 35 40 45
 Cys Trp Gln Ala Thr Ala Arg Glu Glu Lys Ser Trp Trp Arg Arg Ser
 50 55 60
 Pro Pro Arg Leu Ser Ala Cys Cys Ala Ile Cys Leu Ala Ile Ser Pro
 65 70 75 80
 Arg Glu Val Ala Ser Ala Pro Pro Ile Lys Asn Trp Val Trp Ile Ser
 85 90 95

Thr Leu Ala His Thr Lys Met Met Cys Ser Arg Thr Pro Gln Gly Gln
 100 105 110
 His Ser Trp Val Ser Met Val Leu Ala Val Pro Thr Leu Ser Ala Leu
 115 120 125
 Ala Ala Glu Lys Leu Gly
 130

<210> 3494

<211> 909

<212> PRT

<213> Homo sapiens

<400> 3494

Met Leu Ser Val Ala Val Lys Ile Leu Ser Asp Lys Ser Glu Ser Asn
 1 5 10 15
 Thr Lys Glu Phe Leu Ile Ala Val Gly Leu Lys Gly Ala Thr Leu Gln
 20 25 30
 His Arg Met Leu Pro Ser Gly Leu Ser Trp His Glu Gln Ile Leu Tyr
 35 40 45
 Phe Leu Asn Ile Ala Asp Glu Pro Val Leu Gly Tyr Asn Pro Pro Thr
 50 55 60
 Ser Phe Thr Thr Phe His Val His Leu Trp Ser Cys Ala Leu Asp Tyr
 65 70 75 80
 Arg Pro Leu Tyr Leu Pro Ile Arg Ser Leu Leu Thr Val Glu Thr Phe
 85 90 95
 Ser Val Ser Ser Ser Val Ala Leu Asp Lys Ser Ser Ser Thr Leu Arg
 100 105 110
 Ile Ile Leu Asp Glu Ala Ala Leu His Leu Ser Asp Lys Cys Asn Thr

115	120	125
Val Thr Ile Asn Leu Ser Arg Asp Tyr Val Arg Val Met Asp Met Gly		
130	135	140
Leu Leu Glu Leu Thr Ile Thr Ala Val Lys Ser Asp Ser Asp Gly Glu		
145	150	155
Gln Thr Glu Pro Arg Phe Glu Leu His Cys Ser Ser Asp Val Val His		
165	170	175
Ile Arg Thr Cys Ser Asp Ser Cys Ala Ala Leu Met Asn Leu Ile Gln		
180	185	190
Tyr Ile Ala Ser Tyr Gly Asp Leu Gln Thr Pro Asn Lys Ala Asp Met		
195	200	205
Lys Pro Gly Ala Phe Glu Arg Arg Ser Lys Val Asp Ser Ser Gly Arg		
210	215	220
Ser Ser Ser Arg Gly Pro Val Leu Pro Glu Ala Asp Gln Gln Met Leu		
225	230	235
Arg Asp Leu Met Ser Asp Ala Met Glu Glu Ile Asp Met Gln Gln Gly		
245	250	255
Thr Ser Ser Val Lys Pro Gln Ala Asn Gly Val Leu Asp Glu Lys Ser		
260	265	270
Gln Ile Gln Glu Pro Cys Cys Ser Asp Leu Phe Leu Phe Pro Asp Glu		
275	280	285
Ser Gly Asn Val Ser Gln Glu Ser Gly Pro Thr Tyr Ala Ser Phe Ser		
290	295	300
His His Phe Ile Ser Asp Ala Met Thr Gly Val Pro Thr Glu Asn Asp		
305	310	315
Asp Phe Cys Ile Leu Phe Ala Pro Lys Ala Ala Met Gln Glu Lys Glu		
325	330	335
Glu Glu Pro Val Ile Lys Ile Met Val Asp Asp Ala Ile Val Ile Arg		
340	345	350

Asp Asn Tyr Phe Ser Leu Pro Val Asn Lys Thr Asp Thr Ser Lys Ala
355 360 365
Pro Leu His Phe Pro Ile Pro Val Ile Arg Tyr Val Val Lys Glu Val
370 375 380
Ser Leu Val Trp His Leu Tyr Gly Gly Lys Asp Phe Gly Thr Val Pro
385 390 395 400
Pro Thr Ser Pro Ala Lys Ser Tyr Ile Ser Pro His Ser Ser Pro Ser
405 410 415
His Thr Pro Thr Arg His Gly Arg Asn Thr Val Cys Gly Gly Lys Gly
420 425 430
Arg Asn His Asp Phe Leu Met Glu Ile Gln Leu Ser Lys Val Lys Phe
435 440 445
Gln His Glu Val Tyr Pro Pro Cys Lys Pro Asp Cys Asp Ser Ser Leu
450 455 460
Ser Glu His Pro Val Ser Arg Gln Val Phe Ile Val Gln Asp Leu Glu
465 470 475 480
Ile Arg Asp Arg Leu Ala Thr Ser Gln Met Asn Lys Phe Leu Tyr Leu
485 490 495
Tyr Cys Ser Lys Glu Met Pro Arg Lys Ala His Ser Asn Met Leu Thr
500 505 510
Val Lys Ala Leu His Val Cys Pro Glu Ser Gly Arg Ser Pro Gln Glu
515 520 525
Cys Cys Leu Arg Val Ser Leu Met Pro Leu Arg Leu Asn Ile Asp Gln
530 535 540
Asp Ala Leu Phe Phe Leu Lys Asp Phe Phe Thr Ser Leu Ser Ala Glu
545 550 555 560
Val Glu Leu Gln Met Thr Pro Asp Pro Glu Val Lys Lys Ser Pro Gly
565 570 575
Ala Asp Val Thr Cys Ser Leu Pro Arg His Leu Ser Thr Ser Lys Glu

580 585 590
Pro Asn Leu Val Ile Ser Phe Ser Gly Pro Lys Gln Pro Ser Gln Asn
595 600 605
Asp Ser Ala Asn Ser Val Glu Val Val Asn Gly Met Glu Glu Lys Asn
610 615 620
Phe Ser Ala Glu Glu Ala Ser Phe Arg Asp Gln Pro Val Phe Phe Arg
625 630 635 640
Glu Phe Arg Phe Thr Ser Glu Val Pro Ile Arg Leu Asp Tyr His Gly
645 650 655
Lys His Val Ser Met Asp Gln Gly Thr Leu Ala Gly Ile Leu Ile Gly
660 665 670
Leu Ala Gln Leu Asn Cys Ser Glu Leu Lys Leu Lys Arg Leu Ser Tyr
675 680 685
Arg His Gly Leu Leu Gly Val Asp Lys Leu Phe Ser Tyr Ala Ile Thr
690 695 700
Glu Trp Leu Asn Asp Ile Lys Lys Asn Gln Leu Pro Gly Ile Leu Gly
705 710 715 720
Gly Val Gly Pro Met His Ser Leu Val Gln Leu Val Gln Gly Leu Lys
725 730 735
Asp Leu Val Trp Leu Pro Ile Glu Gln Tyr Arg Lys Asp Gly Arg Ile
740 745 750
Val Arg Gly Phe Gln Arg Gly Ala Ala Ser Ser Gly Thr Ser Thr Ala
755 760 765
Met Ala Ala Leu Glu Leu Thr Asn Arg Met Val Gln Thr Ile Gln Ala
770 775 780
Ala Ala Glu Thr Ala Tyr Asp Met Val Ser Pro Gly Thr Leu Ser Ile
785 790 795 800
Glu Pro Lys Lys Thr Lys Arg Phe Pro His His Arg Leu Ala His Gln
805 810 815

Pro Val Asp Leu Arg Glu Gly Val Ala Lys Ala Tyr Ser Val Val Lys
 820 825 830
 Glu Gly Ile Thr Asp Thr Ala Gln Thr Ile Tyr Glu Thr Ala Ala Arg
 835 840 845
 Glu His Glu Ser Arg Gly Val Thr Gly Ala Val Gly Glu Val Leu Arg
 850 855 860
 Gln Ile Pro Pro Ala Val Val Lys Pro Leu Ile Val Ala Thr Glu Ala
 865 870 875 880
 Thr Ser Asn Val Leu Gly Gly Met Arg Asn Gln Ile Arg Pro Asp Val
 885 890 895
 Arg Gln Asp Glu Ser Gln Lys Trp Arg His Gly Asp Asp
 900 905

<210> 3495

<211> 121

<212> PRT

<213> Homo sapiens

<400> 3495

Met Gln Pro Arg Tyr Arg Thr Val Leu Leu Ala Ser Pro Tyr Gln Ile
 1 5 10 15
 Tyr Ser Cys Tyr Phe Val Val Lys Thr Ser Pro Leu His Pro Asn Pro
 20 25 30
 Gly Ser His Trp Phe Phe Ser Ser Phe Ser Phe Phe Phe Phe Leu
 35 40 45
 Arg Gln Ser Leu Ala Leu Leu Ser Arg Leu Glu Trp Cys Ser Gly Val
 50 55 60
 Ile Ser Val His Cys Asn Leu Arg Leu Gln Gly Ser Ser Gly Ser Pro

65 70 75 80
Ala Ser Ala Ser Arg Val Ala Gly Ile Met Gly Ala Arg His His Ala
 85 90 95
Gln Leu Ile Phe Val Phe Leu Val Glu Met Gly Phe His Cys Phe Gly
 100 105 110
Gln Ala Gly Leu Glu Leu Leu Thr Ser
 115 120

<210> 3496

<211> 115

<212> PRT

<213> Homo sapiens

<400> 3496

Met Ile Pro Pro Gln Glu Ala Ser Ala Arg Arg Arg Glu Ile Glu Asp
1 5 10 15
Lys Leu Lys Gln Glu Glu Glu Thr Leu Ser Phe Ile Arg Asp Ser Leu
 20 25 30
Glu Lys Ser Asp Gln Leu Thr Lys Asn Met Val Ser Ile Leu Ser Ser
 35 40 45
Phe Glu Ser Arg Leu Met Lys Leu Glu Asn Ser Ile Ile Pro Gly Leu
 50 55 60
Phe Gln Thr Gln Ser Arg Gly Thr Gly Phe Ala Arg Pro Arg Arg Pro
65 70 75 80
Leu Ser Arg Arg Pro Thr Gly Pro Phe Tyr Arg Ser Leu Ala Ala Cys
 85 90 95
Pro Ser Pro Arg Thr Arg Arg Ser Thr Ser Ser Thr Gly Trp Ser Arg
 100 105 110

Trp Ala Thr

115

<210> 3497

<211> 337

<212> PRT

<213> Homo sapiens

<400> 3497

Met Cys Arg Asp Tyr Val Leu Asp Cys Asn Ile Leu Pro Pro Leu Leu

1

5

10

15

Gln Leu Phe Ser Lys Gln Asn Arg Leu Thr Met Thr Arg Asn Ala Val

20

25

30

Trp Ala Leu Ser Asn Leu Cys Arg Gly Lys Ser Pro Pro Pro Glu Phe

35

40

45

Ala Lys Val Ser Pro Cys Leu Asn Val Leu Ser Trp Leu Leu Phe Val

50

55

60

Ser Asp Thr Asp Val Leu Ala Asp Ala Cys Trp Ala Leu Ser Tyr Leu

65

70

75

80

Ser Asp Gly Pro Asn Asp Lys Ile Gln Ala Val Ile Asp Ala Gly Val

85

90

95

Cys Arg Arg Leu Val Glu Leu Leu Met His Asn Asp Tyr Lys Val Val

100

105

110

Ser Pro Ala Leu Arg Ala Val Gly Asn Ile Val Thr Gly Asp Asp Ile

115

120

125

Gln Thr Gln Val Ile Leu Asn Cys Ser Ala Leu Gln Ser Leu Leu His

130

135

140

Leu Leu Ser Ser Pro Lys Glu Ser Ile Lys Lys Glu Ala Cys Trp Thr

145 150 155 160
Ile Ser Asn Ile Thr Ala Gly Asn Arg Ala Gln Ile Gln Thr Val Ile
 165 170 175
Asp Ala Asn Ile Phe Pro Ala Leu Ile Ser Ile Leu Gln Thr Ala Glu
 180 185 190
Phe Arg Thr Arg Lys Glu Ala Ala Trp Ala Ile Thr Asn Ala Thr Ser
 195 200 205
Gly Gly Ser Ala Glu Gln Ile Lys Tyr Leu Val Glu Leu Gly Cys Ile
 210 215 220
Lys Pro Leu Cys Asp Leu Leu Thr Val Met Asp Ser Lys Ile Val Gln
225 230 235 240
Val Ala Leu Asn Gly Leu Glu Asn Ile Leu Arg Leu Gly Glu Gln Glu
 245 250 255
Ala Lys Arg Asn Gly Thr Gly Ile Asn Pro Tyr Cys Ala Leu Ile Glu
 260 265 270
Glu Ala Tyr Gly Leu Asp Lys Ile Glu Phe Leu Gln Ser His Glu Asn
 275 280 285
Gln Glu Ile Tyr Gln Lys Ala Phe Asp Leu Ile Glu His Tyr Phe Gly
 290 295 300
Thr Glu Asp Glu Asp Ser Ser Ile Ala Pro Gln Val Asp Leu Asn Gln
305 310 315 320
Gln Gln Tyr Ile Phe Gln Gln Cys Glu Ala Pro Met Glu Gly Phe Gln
 325 330 335
Leu

<210> 3498

<211> 121

<212> PRT

<213> Homo sapiens

<400> 3498

Met Leu Glu Arg Gly His Cys Cys Leu Pro Gly Gly Ala Lys Ser Gly
1 5 10 15
Leu Ala Gly Ser Ser Ala Pro Val His Arg Gln Gly Arg Leu Arg Thr
20 25 30
Val Trp Ala Pro Gln His Gln Arg Val Ala Pro Trp His Pro Pro Gly
35 40 45
Pro His Cys Ile Trp Gly Lys Lys Leu His Gly Asn Val Ser Leu Tyr
50 55 60
Leu Ala Leu Leu Ala His Pro Gly Gly His Tyr Asp Thr Ser Leu Pro
65 70 75 80
His Cys Thr Leu Pro Ala Leu Ala Thr Asn Met Pro Pro Thr Thr Thr
85 90 95
Asp His Leu Gly Gln Pro Ala Thr Ser Thr Ser Pro Thr Ser Gln Cys
100 105 110
Leu Ser Val Lys Ile Pro Arg Thr Lys
115 120

<210> 3499

<211> 512

<212> PRT

<213> Homo sapiens

<400> 3499

Met Pro His Ala Gly Gly Lys Phe Tyr Gly Cys Lys Lys Cys Gly Lys

1	5	10	15
Ala Phe Ile Ser Phe Cys Ala Phe Arg Tyr His Gln Arg Thr His Thr			
20	25	30	
Lys Glu Lys Pro Tyr Ala Cys Lys Gln Cys Gly Lys Ala Tyr Ile Ser			
35	40	45	
Tyr Thr Ser Phe Gln Tyr His Gln Leu Asn His Thr Gly Ala Lys Arg			
50	55	60	
Tyr Glu Cys Lys Gln Cys Gly Lys Gly Phe Asp Leu Pro Asn Ser Ile			
65	70	75	80
Arg Tyr His Glu Met Thr His Thr Gly Glu Lys Pro His Glu Cys Lys			
85	90	95	
Gln Cys Gly Lys Thr Phe Arg Cys Ala Ser Ser Leu Arg Ile His Gly			
100	105	110	
Arg Thr His Thr Gly Glu Lys Pro Tyr Glu Cys Lys Gln Cys Gly Lys			
115	120	125	
Val Ser Arg Tyr Trp Ser Gly Leu Gln Val His Glu Val Thr His Ile			
130	135	140	
Gly Lys Lys Leu Tyr Glu Cys Lys Glu Cys Gly Lys Ser Tyr Tyr Ser			
145	150	155	160
Ser Gly Ser Phe Leu Asn His Lys Arg Ile His Thr Arg Glu Lys Ser			
165	170	175	
Tyr Glu Cys Lys Glu Cys Gly Lys Ala Phe Gly Asn Pro Ile Ser Phe			
180	185	190	
Gln Lys His Glu Gly Ser His Arg Lys Trp Lys Pro Tyr Glu Cys Lys			
195	200	205	
Glu Cys Gly Lys Val Phe Ser Phe Ser Ser Ser Leu Arg Arg His Glu			
210	215	220	
Arg Thr His Thr Glu Lys Leu Cys Glu Cys Lys Gln His Gly Lys Gly			
225	230	235	240

Phe Phe His Arg Ser Cys Pro Arg His Met Lys Ile Asp Thr Gly Glu
 245 250 255
 Ile Leu His Lys Arg Lys Ile Arg Gly Lys Val Phe His Ser Pro Ser
 260 265 270
 Ser Phe Gln Thr Cys Glu Arg Ser His Thr Arg Glu Lys Arg Tyr Lys
 275 280 285
 Cys Lys Gln Cys Gly Lys Pro Phe Ile Tyr Phe Asn Ala Phe Gln Arg
 290 295 300
 His Gln Arg Ser His Thr Gly Glu Asn Pro Tyr Glu Cys Lys Gln Cys
 305 310 315 320
 Gly Lys Ala Cys Ile Ser Ser Thr Ala Phe Gln Cys Arg Glu Leu Ser
 325 330 335
 His Thr Gly Ala Lys Arg Tyr Lys Cys Lys Gln Cys Gly Lys Gly Phe
 340 345 350
 Asn Leu Pro Ser Ser Ile Arg Tyr His Glu Met Thr His Thr Gly Glu
 355 360 365
 Lys Pro Tyr Glu Cys Lys Gln Cys Gly Arg Ala Phe Arg Ser Ala Ser
 370 375 380
 His Leu Arg Thr His Glu Arg Thr His Ile Gly Glu Lys Pro Tyr Glu
 385 390 395 400
 Cys Lys Gln Cys Gly Lys Val Tyr Arg Tyr Trp Ser Gly Leu Arg Ile
 405 410 415
 His Gly Leu Thr His Ile Gly Lys Lys Pro Tyr Glu Phe Asn Asp Arg
 420 425 430
 Gly Lys Ser Phe Tyr Ser Ser Asn Phe Phe Leu Asn His Lys Arg Val
 435 440 445
 His Thr Arg Val Lys Thr Tyr Glu Cys Lys Glu Cys Gly Lys Ala Phe
 450 455 460
 Asp Asn Pro Thr Ser Phe Gln Lys His Glu Gly Ser His Arg Lys Gly

465		470		475		480
Lys Ser Tyr Glu Cys Lys Glu Cys Gly Lys Val Phe Ser Phe Ser Arg						
		485		490		495
Ser Phe Arg Arg Tyr Glu Arg Ala His Thr Gly Glu Lys Pro Cys Glu						
	500		505		510	

<210> 3500

<211> 122

<212> PRT

<213> Homo sapiens

<400> 3500

Met Leu Gly Thr His Pro Leu Ser Leu His Val Ser Ser Ser Ser Cys			
1	5	10	15
Ser Ser Ser Pro Met His Gly Pro Pro Pro Thr Trp Leu Pro Gly Trp			
	20	25	30
Ala Gly Thr Met Gly Ser Cys Trp Leu Thr Ser Leu Leu Ser His Ser			
	35	40	45
Val Pro Ser Leu Val Ser Leu Ala Ser Leu Ala Ser His Lys Pro Ala			
	50	55	60
Tyr Leu Tyr His Thr Asp Ile Val Gly Pro Ser Ser Asp His Asn Ser			
65	70	75	80
Asn Phe Ser Cys Phe Ala Val Pro Leu Leu Pro Ser Tyr His Leu Leu			
	85	90	95
Gln Val Val Leu Ser Lys His Leu Lys Ile Pro Ile Trp Ser Leu His			
	100	105	110
Lys Ala Ala Arg Cys Pro Lys His Lys Ala			
	115	120	

<210> 3501

<211> 140

<212> PRT

<213> Homo sapiens

<400> 3501

Met Gly Cys Val Ser Lys His Cys Ala Ala Pro Val Gln Ser Arg Ala

1 5 10 15

Pro Thr Ser Asn Phe Leu Ser Pro Asp Trp Arg Pro Ser Arg Cys Leu

20 25 30

Thr Leu His Trp His Cys Ser Cys Phe Trp Phe Ser Arg Gln Asp Val

35 40 45

Val Ser Phe Thr Val Phe Leu Ser Ala Leu Phe Cys Leu His Phe Phe

50 55 60

Ser His Leu Leu Thr Leu His Ser Ala Trp Gly Ile Pro Pro His Ser

65 70 75 80

Leu Gln Ser Tyr Ser Leu Asp Gln Thr Gln Leu Glu Ser Val Gln Pro

85 90 95

Ser Thr Phe Ser Pro His Leu Asp Pro Leu Cys Ala Gly Gly Asp Asn

100 105 110

His Thr Ser Arg Val Cys Cys Leu Glu Leu Thr Arg Leu Leu Leu Phe

115 120 125

Gln Thr Gln Pro Met Ile Ser Pro Pro Ala Leu Glu

130 135 140

<210> 3502

<211> 366

<212> PRT

<213> Homo sapiens

<400> 3502

Met Ala Leu Ser Pro Pro Ala Ser Arg Gly Lys Leu Pro Gly Asp Phe

1 5 10 15

Asp Val Leu Pro Thr Gly Ile Pro Gly Arg Ala Val Leu Glu Arg Ser

20 25 30

Gln Ser Gly Gly Lys Pro Glu Pro Val Val Thr Val Arg Thr Gln Glu

35 40 45

Thr Asp Val Val Glu Met Thr Thr Gln Ala Lys Ser Pro Glu Ser Pro

50 55 60

Phe Thr Val Thr Lys Lys Glu Ser Lys Asp Ile Leu Ile Ser Gln Thr

65 70 75 80

Glu Glu Val Thr Leu Glu Ala Phe Arg Gly Gln Gly Lys Leu Glu Asp

85 90 95

Trp Ala His Trp Ala Lys Leu Glu Glu Arg Ser Pro Asp Leu Pro Gly

100 105 110

Val Arg Ser Lys Glu Leu Glu Gln Arg Lys Arg Trp Val Lys Ala Lys

115 120 125

Glu Leu Ala Val Glu Gly Pro Ser Gln Glu His Ser Arg Pro Phe Ser

130 135 140

Val Glu Ala Leu Thr Leu Thr Lys Leu Met Ile Thr Ala Asn Ser Lys

145 150 155 160

Glu Gln Arg Ser Lys Ser Ala Leu Val Ser Leu Pro Ser Trp Leu Leu

165 170 175

Ala Thr Pro Gln Ala Ser Ala Thr Ser Met Met Ala Ser Val Pro Ser

180 185 190

Arg Pro Gly Gln Leu Ser Leu Leu Glu Gly Lys Pro Val Val Val Arg
195 200 205
Glu Gln Pro Glu Ser His Thr Trp Val Lys Glu Gly Lys Arg Pro Trp
210 215 220
Gly Glu Met Lys Glu Pro Pro Trp Asp Pro Lys Gly Pro Pro Lys Val
225 230 235 240
Pro Phe Arg Ser Lys Pro Thr Ser Ala Ser Leu Lys Arg Glu Gly Ile
245 250 255
Ser Gln Ala Pro Ile Pro Leu Thr Ala Ser Pro Trp Glu Asp Leu Arg
260 265 270
Pro Ser Pro Leu Ser Glu Thr Leu Ile Ser Lys Met Glu Ala Thr Ala
275 280 285
Arg Ala Ser Gln Gln Pro Lys Arg Val Ser Gln Glu Pro Met Arg Met
290 295 300
Pro Ala Gln His Pro Leu Ala Thr Val Gly Ser Ser Ser Glu Ile Leu
305 310 315 320
Leu Pro Met Leu Leu Glu Leu Glu Thr Val Arg Asn Thr Ala Thr Lys
325 330 335
Ala Glu Glu Ile Gln Glu Glu Ser Gly Val Leu Asn Leu Leu Pro Ser
340 345 350
Leu Gln His Ser Gln His Ser Glu Trp Pro Asp Ala Gly Ala
355 360 365

<210> 3503

<211> 174

<212> PRT

<213> Homo sapiens

<400> 3503

Met Arg Ser Ile Val Ser Ala Leu Ser Thr Ser His Ser Gly Cys Glu
 1 5 10 15
 Asp Gly Arg Arg Glu His Ser Trp Arg Leu Cys Ser Trp Gly Ala Ala
 20 25 30
 Pro Gly Cys Gly Thr Ala Ser His Arg Ala Val Pro Ala Gly His Trp
 35 40 45
 His Gln Lys Pro Gln Tyr Gln Arg Asp Thr Val Thr Pro Glu Leu Ser
 50 55 60
 Trp Arg Arg Leu Gln Ala Arg Ser Thr Pro Leu Ala Ser Ser Cys Leu
 65 70 75 80
 Lys Val Pro Leu Leu Ile Phe Tyr Ile Ile Ser Gln Ser Ser Leu Ala
 85 90 95
 Ser Asp Gly Glu Gly Thr Pro Arg Ser Leu Ile Pro Ala Pro Val Pro
 100 105 110
 Leu Pro His Pro Cys Leu Pro Leu Pro Leu Leu Gly Arg Pro Arg Arg
 115 120 125
 Pro Pro Trp Ser Ser Asp Thr Ala Ala Val Ala Pro Ala Ala Leu Cys
 130 135 140
 Ser Ala Ala Pro Glu Asn Cys Phe Pro Ala Ala Ala Trp Pro Ser Gly
 145 150 155 160
 Ser Gly Gln Gly Phe Gly Gln Lys Asn Arg Leu Glu Ala His
 165 170

<210> 3504

<211> 506

<212> PRT

<213> Homo sapiens

Met	Lys	Arg	Arg	Ser	Val	Thr	Met	Thr	Asp	Gly	Leu	Thr	Ala	Asp	Lys
1				5					10					15	
Val	Thr	Arg	Ser	Asp	Gly	Cys	Pro	Thr	Ser	Thr	Ser	Leu	Pro	Arg	Pro
			20					25					30		
Arg	Asp	Ser	Ile	Arg	Ser	Cys	Ala	Leu	Ser	Met	Asp	Gln	Ile	Pro	Asp
		35					40					45			
Leu	His	Ser	Pro	Met	Ser	Pro	Ile	Ser	Glu	Ser	Pro	Ser	Ser	Pro	Ala
	50					55					60				
Tyr	Ser	Thr	Val	Thr	Arg	Val	His	Ala	Ala	Pro	Ala	Ala	Pro	Ser	Ala
65					70					75					80
Thr	Ala	Leu	Pro	Ala	Ser	Pro	Val	Ala	Arg	Arg	Ser	Ser	Glu	Pro	Gln
				85					90					95	
Leu	Cys	Pro	Gly	Ser	Ala	Pro	Lys	Thr	His	Gly	Glu	Ser	Asp	Lys	Gly
		100						105					110		
Pro	His	Thr	Ser	Pro	Ser	His	Thr	Leu	Gly	Lys	Ala	Ser	Pro	Ser	Pro
		115					120					125			
Ser	Leu	Ser	Ser	Tyr	Ser	Asp	Pro	Asp	Ser	Gly	His	Tyr	Cys	Gln	Leu
	130					135					140				
Gln	Pro	Pro	Val	Arg	Gly	Ser	Arg	Glu	Trp	Ala	Ala	Thr	Glu	Thr	Ser
145				150						155					160
Ser	Gln	Gln	Ala	Arg	Ser	Tyr	Gly	Glu	Arg	Leu	Lys	Glu	Leu	Ser	Glu
			165						170					175	
Asn	Gly	Ala	Pro	Glu	Gly	Asp	Trp	Gly	Lys	Thr	Phe	Thr	Val	Pro	Ile
		180							185				190		
Val	Glu	Val	Thr	Ser	Ser	Phe	Asn	Pro	Ala	Thr	Phe	Gln	Ser	Leu	Leu
		195					200					205			
Ile	Pro	Arg	Asp	Asn	Arg	Pro	Leu	Glu	Val	Gly	Leu	Leu	Arg	Lys	Val

210 215 220
Lys Glu Leu Leu Ala Glu Val Asp Ala Arg Thr Leu Ala Arg His Val
225 230 235 240
Thr Lys Val Asp Cys Leu Val Ala Arg Ile Leu Gly Val Thr Lys Glu
245 250 255
Met Gln Thr Leu Met Gly Val Arg Trp Gly Met Glu Leu Leu Thr Leu
260 265 270
Pro His Gly Arg Gln Leu Arg Leu Asp Leu Leu Glu Arg Phe His Thr
275 280 285
Met Ser Ile Met Leu Ala Val Asp Ile Leu Gly Cys Thr Gly Pro Ala
290 295 300
Glu Glu Arg Ala Ala Leu Leu His Lys Thr Ile Gln Leu Ala Ala Glu
305 310 315 320
Leu Arg Gly Thr Met Gly Asn Met Phe Ser Phe Ala Ala Val Met Gly
325 330 335
Ala Leu Asp Met Ala Gln Ile Ser Arg Leu Glu Gln Thr Trp Val Thr
340 345 350
Leu Arg Gln Arg His Thr Glu Gly Ala Ile Leu Tyr Glu Lys Lys Leu
355 360 365
Lys Pro Phe Leu Lys Ser Leu Asn Glu Gly Lys Glu Gly Pro Pro Leu
370 375 380
Ser Asn Thr Thr Phe Pro His Val Leu Pro Leu Ile Thr Leu Leu Glu
385 390 395 400
Cys Asp Ser Ala Pro Pro Glu Gly Pro Glu Pro Trp Gly Ser Thr Glu
405 410 415
His Gly Val Glu Val Val Leu Ala His Leu Glu Ala Ala Arg Thr Val
420 425 430
Ala His His Gly Gly Leu Tyr His Thr Asn Ala Glu Val Lys Leu Gln
435 440 445

Gly Phe Gln Ala Arg Pro Glu Leu Leu Glu Val Phe Ser Thr Glu Phe
 450 455 460
 Gln Met Arg Leu Leu Trp Gly Ser Gln Gly Ala Ser Ser Ser Gln Ala
 465 470 475 480
 Arg Arg Tyr Glu Lys Phe Asp Lys Val Leu Thr Ala Leu Ser His Lys
 485 490 495
 Leu Glu Pro Ala Val Arg Ser Ser Glu Leu
 500 505

<210> 3505

<211> 143

<212> PRT

<213> Homo sapiens

<400> 3505

Met Gly Val Ser Val Ser Pro Leu Ile Thr Leu Pro Ala Trp Cys Asn
 1 5 10 15
 Val His Met Leu Ser Phe Ile Thr Ala Met Gly Thr Glu Arg Gln Phe
 20 25 30
 Met Leu Ser Pro His Gly Ala Leu Arg Ser Ile Ser Thr His His Pro
 35 40 45
 Ala Leu Thr Val Ile Cys Leu Thr Pro Leu Ala Leu Leu Phe Phe Leu
 50 55 60
 Glu His Asp Asn Leu Pro Pro Ala Ala Pro Ala Gln Ser Gln Asp Val
 65 70 75 80
 Cys Met Cys Arg Gly Pro Cys Thr Leu Phe Pro Gln Leu Leu Ala Cys
 85 90 95
 Leu Phe Pro Ser His Tyr Pro Cys Leu Cys Leu Ser Ile Ser Ser Ser

100 105 110
 Glu Val Leu Leu Thr Ser Pro Leu Gln Val Pro Phe Pro Leu Pro Pro
 115 120 125
 Cys Gly Ser Val Ala Pro Ser Thr Leu Gln Leu Cys Ser Phe Pro
 130 135 140

<210> 3506

<211> 143

<212> PRT

<213> Homo sapiens

<400> 3506

Met Leu Cys Gln Leu Leu Thr Pro Gly Ser Cys Pro Ala Leu Pro Cys
 1 5 10 15
 Val Pro Thr Pro Pro Pro Pro Ala Met Pro His Thr Cys Leu Ser Pro
 20 25 30
 Gln Ala Arg Ala Leu Ser Cys Gly Tyr Pro Arg Lys Gln Pro Ser Lys
 35 40 45
 Ser Phe Val Ala Met Val Leu Pro Trp Gly Pro Cys Ser Cys Ser Ala
 50 55 60
 Ala Pro Pro Thr Thr Arg Trp Trp Gly Leu Gly Ser Ser Pro Ala Pro
 65 70 75 80
 Gly Arg Gly Ala Ser Leu Ser Gly Leu Gln Gly Pro Gln Cys Ala Asn
 85 90 95
 Val Arg Thr Pro Leu Ser Ala Arg Trp Leu Trp Gly Trp Gly Met Ala
 100 105 110
 Pro Asn Pro Val Met Gly Met Val Trp Val Gly Met Ala Trp Val Ser
 115 120 125

Thr His Lys Gln Leu Gly Gln Cys Val Gly Ser His Ser Gln His
 130 135 140

<210> 3507

<211> 142

<212> PRT

<213> Homo sapiens

<400> 3507

Met Ala Pro Arg Thr Leu Leu Leu Leu Leu Ser Gly Ala Leu Val Leu
 1 5 10 15
 Thr Gln Thr Trp Ala Gly Phe His Ser Leu Arg Tyr Phe His Thr Thr
 20 25 30
 Met Ser Arg Pro Gly Arg Ala Asp Pro Arg Phe Leu Ser Val Gly Asp
 35 40 45
 Val Asp Asp Thr Gln Cys Val Arg Leu Asp Ser Asp Ala Thr Ser Pro
 50 55 60
 Arg Met Glu Pro Glu Gly Pro Glu Tyr Trp Glu Glu Glu Thr Gly Thr
 65 70 75 80
 Ala Lys Ala Lys Ala Gln Phe Tyr Arg Val Asn Leu Arg Thr Leu Ser
 85 90 95
 Gly Tyr Tyr Asn Gln Ser Glu Ala Trp Ala Ala Ser His Thr Glu Ser
 100 105 110
 Trp Thr Gly Leu Tyr Arg His Asn Leu Val Pro Ala Trp Met Lys Pro
 115 120 125
 Ser Glu Glu Trp Leu Pro Ser Phe Arg Met Trp Cys Met Tyr
 130 135 140

<210> 3508

<211> 808

<212> PRT

<213> Homo sapiens

<400> 3508

Met Ala Glu Ser Ser Glu Ser Phe Thr Met Ala Ser Ser Pro Ala Gln

1 5 10 15

Arg Arg Arg Gly Asn Asp Pro Leu Thr Ser Ser Pro Gly Arg Gly Leu

20 25 30

Gly Arg Met Arg Arg Gly Leu Leu Tyr Asp Ser Asp Glu Glu Asp Glu

35 40 45

Glu Arg Pro Ala Arg Lys Arg Arg Gln Val Glu Arg Ala Thr Glu Asp

50 55 60

Gly Glu Glu Asp Glu Glu Met Ile Glu Ser Ile Glu Asn Leu Glu Asp

65 70 75 80

Leu Lys Gly His Ser Val Arg Glu Trp Val Ser Met Ala Gly Pro Arg

85 90 95

Leu Glu Ile His His Arg Phe Lys Asn Phe Leu Arg Thr His Val Asp

100 105 110

Ser His Gly His Asn Val Phe Lys Glu Arg Ile Ser Asp Met Cys Lys

115 120 125

Glu Asn Arg Glu Ser Leu Val Val Asn Tyr Glu Asp Leu Ala Ala Arg

130 135 140

Glu His Val Leu Ala Tyr Phe Leu Pro Glu Ala Pro Ala Glu Leu Leu

145 150 155 160

Gln Ile Phe Asp Glu Ala Ala Leu Glu Val Val Leu Ala Met Tyr Pro

165 170 175

Lys Tyr Asp Arg Ile Thr Asn His Ile His Val Arg Ile Ser His Leu
 180 185 190
 Pro Leu Val Glu Glu Leu Arg Ser Leu Arg Gln Leu His Leu Asn Gln
 195 200 205
 Leu Ile Arg Thr Ser Gly Val Val Thr Ser Cys Thr Gly Val Leu Pro
 210 215 220
 Gln Leu Ser Met Val Lys Tyr Asn Cys Asn Lys Cys Asn Phe Val Leu
 225 230 235 240
 Gly Pro Phe Cys Gln Ser Gln Asn Gln Glu Val Lys Pro Gly Ser Cys
 245 250 255
 Pro Glu Cys Gln Ser Ala Gly Pro Phe Glu Val Asn Met Glu Glu Thr
 260 265 270
 Ile Tyr Gln Asn Tyr Gln Arg Ile Arg Ile Gln Glu Ser Pro Gly Lys
 275 280 285
 Val Ala Ala Gly Arg Leu Pro Arg Ser Lys Asp Ala Ile Leu Leu Ala
 290 295 300
 Asp Leu Val Asp Ser Cys Lys Pro Gly Asp Glu Ile Glu Leu Thr Gly
 305 310 315 320
 Ile Tyr His Asn Asn Tyr Asp Gly Ser Leu Asn Thr Ala Asn Gly Phe
 325 330 335
 Pro Val Phe Ala Thr Val Ile Leu Ala Asn His Val Ala Lys Lys Asp
 340 345 350
 Asn Lys Val Ala Val Gly Glu Leu Thr Asp Glu Asp Val Lys Met Ile
 355 360 365
 Thr Ser Leu Ser Lys Asp Gln Gln Ile Gly Glu Lys Ile Phe Ala Ser
 370 375 380
 Ile Ala Pro Ser Ile Tyr Gly His Glu Asp Ile Lys Arg Gly Leu Ala
 385 390 395 400
 Leu Ala Leu Phe Gly Gly Glu Pro Lys Asn Pro Gly Gly Lys His Lys

405 410 415
Val Arg Gly Asp Ile Asn Val Leu Leu Cys Gly Asp Pro Gly Thr Ala
420 425 430
Lys Ser Gln Phe Leu Lys Tyr Ile Glu Lys Val Ser Ser Arg Ala Ile
435 440 445
Phe Thr Thr Gly Gln Gly Ala Ser Ala Val Gly Leu Thr Ala Tyr Val
450 455 460
Gln Arg His Pro Val Ser Arg Glu Trp Thr Leu Glu Ala Gly Ala Leu
465 470 475 480
Val Leu Ala Asp Arg Gly Val Cys Leu Ile Asp Glu Phe Asp Lys Met
485 490 495
Asn Asp Gln Asp Arg Thr Ser Ile His Glu Ala Met Glu Gln Gln Ser
500 505 510
Ile Ser Ile Ser Lys Ala Gly Ile Val Thr Ser Leu Gln Ala Arg Cys
515 520 525
Thr Val Ile Ala Ala Ala Asn Pro Ile Gly Gly Arg Tyr Asp Pro Ser
530 535 540
Leu Thr Phe Ser Glu Asn Val Asp Leu Thr Glu Pro Ile Ile Ser Arg
545 550 555 560
Phe Asp Ile Leu Cys Val Val Arg Asp Thr Val Asp Pro Val Gln Asp
565 570 575
Glu Met Leu Ala Arg Phe Val Val Gly Ser His Val Arg His His Pro
580 585 590
Ser Asn Lys Glu Glu Glu Gly Leu Ala Asn Gly Ser Ala Ala Glu Pro
595 600 605
Ala Met Pro Asn Thr Tyr Gly Val Glu Pro Leu Pro Gln Glu Val Leu
610 615 620
Lys Lys Tyr Ile Ile Tyr Ala Lys Glu Arg Val His Pro Lys Leu Asn
625 630 635 640

Gln Met Asp Gln Asp Lys Val Ala Lys Met Tyr Ser Asp Leu Arg Lys
645 650 655
Glu Ser Met Ala Thr Gly Ser Ile Pro Ile Thr Val Arg His Ile Glu
660 665 670
Ser Met Ile Arg Met Ala Glu Ala His Ala Arg Ile His Leu Arg Asp
675 680 685
Tyr Val Ile Glu Asp Asp Val Asn Met Ala Ile Arg Val Met Leu Glu
690 695 700
Ser Phe Ile Asp Thr Gln Lys Phe Ser Val Met Arg Ser Met Arg Lys
705 710 715 720
Thr Phe Ala Arg Tyr Leu Ser Phe Arg Arg Asp Asn Asn Glu Leu Leu
725 730 735
Leu Phe Ile Leu Lys Gln Leu Val Ala Glu Gln Val Thr Tyr Gln Arg
740 745 750
Asn Arg Phe Gly Ala Gln Gln Asp Thr Ile Glu Val Pro Glu Lys Asp
755 760 765
Leu Val Asp Lys Ala Arg Gln Ile Asn Ile His Asn Leu Ser Ala Phe
770 775 780
Tyr Asp Ser Glu Leu Phe Arg Met Asn Lys Phe Ser His Asp Leu Lys
785 790 795 800
Arg Arg Met Ile Leu Gln Gln Phe
805

<210> 3509

<211> 286

<212> PRT

<213> Homo sapiens

<400> 3509

Met Ile Arg Cys Asp Pro Cys Thr Leu Val Glu Glu Arg Ala Ser Arg
 1 5 10 15
 Tyr Ser Ala Phe Pro Arg Ser His Lys Gln Pro Val Met Gly Ala Pro
 20 25 30
 Leu Ile Lys Leu Met Lys Ala Ser Ser Leu Pro Phe Tyr His Arg Cys
 35 40 45
 Cys Asp Lys Arg Leu Trp Thr Lys Ile Asp Leu Ser Arg Cys Lys Ala
 50 55 60
 Ile Val Pro Gln Ala Leu Ser Gly Ile Ile Lys Arg Gln Pro Val Ser
 65 70 75 80
 Leu Asp Leu Ser Trp Thr Asn Ile Ser Lys Lys Gln Leu Thr Trp Leu
 85 90 95
 Val Asn Arg Leu Pro Gly Leu Lys Asp Leu Leu Leu Ala Gly Cys Ser
 100 105 110
 Trp Ser Ala Val Ser Ala Leu Ser Thr Ser Ser Cys Pro Leu Leu Arg
 115 120 125
 Thr Leu Asp Leu Arg Trp Ala Val Gly Ile Lys Asp Pro Gln Ile Arg
 130 135 140
 Asp Leu Leu Thr Pro Pro Ala Asp Lys Pro Gly Gln Asp Asn Arg Ser
 145 150 155 160
 Lys Leu Arg Asn Met Thr Asp Phe Arg Leu Ala Gly Leu Asp Ile Thr
 165 170 175
 Asp Ala Thr Leu Arg Leu Ile Ile Arg His Met Pro Leu Leu Ser Arg
 180 185 190
 Leu Asp Leu Ser His Cys Ser His Leu Thr Asp Gln Ser Ser Asn Leu
 195 200 205
 Leu Thr Ala Val Gly Ser Ser Thr Arg Tyr Ser Leu Thr Glu Leu Asn
 210 215 220

Met Ala Gly Cys Asn Lys Leu Thr Asp Gln Thr Leu Ile Tyr Leu Arg
 225 230 235 240
 Arg Ile Ala Asn Val Thr Leu Ile Asp Leu Arg Gly Cys Lys Gln Ile
 245 250 255
 Thr Arg Lys Ala Cys Glu His Phe Ile Ser Asp Leu Ser Ile Asn Ser
 260 265 270
 Leu Tyr Cys Leu Ser Asp Glu Lys Leu Ile Gln Lys Ile Ser
 275 280 285

<210> 3510

<211> 161

<212> PRT

<213> Homo sapiens

<400> 3510

Met Val Cys Phe Asn Met Gly Arg Ile Thr Leu Ala Lys Lys Leu Ala
 1 5 10 15
 Arg Lys Ala Leu Arg Leu Leu Lys Arg Asn Phe Pro Trp Thr Trp Phe
 20 25 30
 Gly Val Leu Phe Gln Thr Phe Leu Glu Lys Tyr Trp His Ser Cys Thr
 35 40 45
 Leu Ser Gln Pro Pro Asn Asp Pro Ser Glu Lys Leu Ser Leu Pro Met
 50 55 60
 Trp Ser Ser Leu Ser Ser Pro Arg Val Trp Ala Ser Arg Thr Ser Gly
 65 70 75 80
 Cys Thr Val Ser Arg Trp Pro Phe Arg Lys Ala Val Tyr Val Gly Ser
 85 90 95
 Pro Gly Arg Gly Cys Trp Pro Gln Leu Ser Ser Cys Arg Pro Trp Pro

<210> 3511
<211> 169
<212> PRT
<213> Homo sapiens

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Ala Gly His Gly Gly Ala Cys Leu Gln Pro Arg Pro Leu Gly Arg Leu
 100 105 110
 Arg Gln Glu Asn Arg Pro Asn Leu Gly Asp Gly Gly Cys Ser Glu Pro
 115 120 125
 Gly Ser Cys His Ser Thr Pro Ala Trp Ala Thr Glu Arg Asp Ser Val
 130 135 140
 Ser Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Ser Leu Pro Phe Val
 145 150 155 160
 Gln Phe Thr Val Cys His Phe Arg Leu
 165

<210> 3512

<211> 120

<212> PRT

<213> Homo sapiens

<400> 3512

Met Asp Leu Ala Pro Leu Ile Phe Ser Gly Lys Leu Ile Pro Gln Ala
 1 5 10 15
 Pro Ser Leu Leu Met Leu Leu Phe Pro Glu Phe Pro Ser Ile Cys Arg
 20 25 30
 Arg Leu Cys Ser Ser Ala Glu Pro Ser Thr Lys Gln Asp Val Leu His
 35 40 45
 Cys Glu Ala Val Leu Pro Gly Gly Thr Val Thr Arg His Phe Phe Gly
 50 55 60
 Ala Ser Leu Gln Lys Ser Gln Asn Thr Arg Pro Ala Ser Ser Tyr His
 65 70 75 80
 Ser Cys Leu Leu Cys Pro Val Leu Gly Pro Pro Ser Pro Cys Ala Asn

				85					90					95			
Thr	Pro	Arg	Gly	Leu	Ser	Cys	Gly	Arg	Asp	Ala	Gly	Ser	His	Ser	Ser		
				100					105					110			
Arg	Trp	Thr	Val	Leu	Glu	Gly	Pro										
				115					120								

<210> 3513

<211> 100

<212> PRT

<213> Homo sapiens

<400> 3513

Met	Tyr	Ser	Thr	Val	Ala	Leu	Pro	Val	Asp	Asn	Val	Ile	Thr	Phe	Ser		
1				5					10					15			
Phe	Cys	Phe	Lys	Thr	Phe	Leu	Phe	Leu	Gln	Ala	Gly	Gln	Ala	Phe	Arg		
			20					25					30				
Lys	Phe	Leu	Pro	Leu	Phe	Asp	Arg	Val	Leu	Val	Glu	Arg	Ser	Ala	Ala		
			35				40					45					
Glu	Thr	Val	Thr	Lys	Gly	Gly	Ile	Met	Leu	Pro	Glu	Lys	Ser	Gln	Gly		
		50				55				60							
Lys	Val	Leu	Gln	Ala	Thr	Val	Val	Ala	Val	Gly	Ser	Gly	Ser	Lys	Gly		
	65				70				75					80			
Lys	Val	Asn	Gly	Ser	Cys	Ser	Gly	Thr	Ile	Phe	Tyr	Ser	Val	Gln	Trp		
				85					90					95			
Arg	Glu	Lys	Lys														
				100													

<210> 3514

<211> 528

<212> PRT

<213> Homo sapiens

<400> 3514

Met Asp His Cys Gly Ala Leu Phe Leu Cys Leu Cys Leu Leu Thr Leu

1 5 10 15

Gln Asn Ala Thr Thr Glu Thr Trp Glu Glu Leu Leu Ser Tyr Met Glu

20 25 30

Asn Met Gln Val Ser Arg Gly Arg Ser Ser Val Phe Ser Ser Arg Gln

35 40 45

Leu His Gln Leu Glu Gln Met Leu Leu Asn Thr Ser Phe Pro Gly Tyr

50 55 60

Asn Leu Thr Leu Gln Thr Pro Thr Ile Gln Ser Leu Ala Phe Lys Leu

65 70 75 80

Ser Cys Asp Phe Ser Gly Leu Ser Leu Thr Ser Ala Thr Leu Lys Arg

85 90 95

Val Pro Gln Ala Gly Gly Gln His Ala Arg Gly Gln His Ala Met Gln

100 105 110

Phe Pro Ala Glu Leu Thr Arg Asp Ala Cys Lys Thr Arg Pro Arg Glu

115 120 125

Leu Arg Leu Ile Cys Ile Tyr Phe Ser Asn Thr His Phe Phe Lys Asp

130 135 140

Glu Asn Asn Ser Ser Leu Leu Asn Asn Tyr Val Leu Gly Ala Gln Leu

145 150 155 160

Ser His Gly His Val Asn Asn Leu Arg Asp Pro Val Asn Ile Ser Phe

165 170 175

Trp His Asn Gln Ser Leu Glu Gly Tyr Thr Leu Thr Cys Val Phe Trp

180 185 190
Lys Glu Gly Ala Arg Lys Gln Pro Trp Gly Gly Trp Ser Pro Glu Gly
195 200 205
Cys Arg Thr Glu Gln Pro Ser His Ser Gln Val Leu Cys Arg Cys Asn
210 215 220
His Leu Thr Tyr Phe Ala Val Leu Met Gln Leu Ser Pro Ala Leu Val
225 230 235 240
Pro Ala Glu Leu Leu Ala Pro Leu Thr Tyr Ile Ser Leu Val Gly Cys
245 250 255
Ser Ile Ser Ile Val Ala Ser Leu Ile Thr Val Leu Leu His Phe His
260 265 270
Phe Arg Lys Gln Ser Asp Ser Leu Thr Arg Ile His Met Asn Leu His
275 280 285
Ala Ser Val Leu Leu Leu Asn Ile Ala Phe Leu Leu Ser Pro Ala Phe
290 295 300
Ala Met Ser Pro Val Pro Gly Ser Ala Cys Thr Ala Leu Ala Ala Ala
305 310 315 320
Leu His Tyr Ala Leu Leu Ser Cys Leu Thr Trp Met Ala Ile Glu Gly
325 330 335
Phe Asn Leu Tyr Leu Leu Leu Gly Arg Val Tyr Asn Ile Tyr Ile Arg
340 345 350
Arg Tyr Val Phe Lys Leu Gly Val Leu Gly Trp Gly Ala Pro Ala Leu
355 360 365
Leu Val Leu Leu Ser Leu Ser Val Lys Ser Ser Val Tyr Gly Pro Cys
370 375 380
Thr Ile Pro Val Phe Asp Ser Trp Glu Asn Gly Thr Gly Phe Gln Asn
385 390 395 400
Met Ser Ile Cys Trp Val Arg Ser Pro Val Val His Ser Val Leu Val
405 410 415

Met Gly Tyr Gly Gly Leu Thr Ser Leu Phe Asn Leu Val Val Leu Ala
 420 425 430
 Trp Ala Leu Trp Thr Leu Arg Arg Leu Arg Glu Arg Ala Asp Ala Pro
 435 440 445
 Ser Val Arg Ala Cys His Asp Thr Val Thr Val Leu Gly Leu Thr Val
 450 455 460
 Leu Leu Gly Thr Thr Trp Ala Leu Ala Phe Phe Ser Phe Gly Val Phe
 465 470 475 480
 Leu Leu Pro Gln Leu Phe Leu Phe Thr Ile Leu Asn Ser Leu Tyr Gly
 485 490 495
 Phe Phe Leu Phe Leu Trp Phe Cys Ser Gln Arg Cys Arg Ser Glu Ala
 500 505 510
 Glu Ala Lys Ala Gln Ile Glu Ala Phe Ser Ser Ser Gln Thr Thr Gln
 515 520 525

<210> 3515

<211> 539

<212> PRT

<213> Homo sapiens

<400> 3515

Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
 1 5 10 15
 Val Gln Cys Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln
 20 25 30
 Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Glu Phe Ile Phe
 35 40 45
 Arg Asp Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu

50	55	60
Gln Trp Val Ser Gly Ile Ser Gly Ser Gly Gln Ser Thr Trp Tyr Thr		
65	70	75
Asp Ser Val Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Glu Asn		
85	90	95
Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val		
100	105	110
Tyr Tyr Cys Ala Lys Asp Met Gly Val Thr Arg Ser Arg Tyr Phe Asp		
115	120	125
Tyr Trp Gly Gln Gly Thr Leu Val Ala Val Ser Ser Ala Ser Thr Lys		
130	135	140
Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly		
145	150	155
Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro		
165	170	175
Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr		
180	185	190
Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val		
195	200	205
Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn		
210	215	220
Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro		
225	230	235
Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu		
245	250	255
Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp		
260	265	270
Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp		
275	280	285

Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly
290 295 300

Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn
305 310 315 320

Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp
325 330 335

Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro
340 345 350

Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu
355 360 365

Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn
370 375 380

Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile
385 390 395 400

Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr
405 410 415

Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys
420 425 430

Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys
435 440 445

Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu
450 455 460

Ser Leu Ser Pro Glu Leu Gln Leu Glu Glu Ser Cys Ala Glu Ala Gln
465 470 475 480

Asp Gly Glu Leu Asp Gly Leu Trp Thr Thr Ile Thr Ile Phe Ile Thr
485 490 495

Leu Phe Leu Leu Ser Val Cys Tyr Ser Ala Thr Val Thr Phe Phe Lys
500 505 510

Val Lys Trp Ile Phe Ser Ser Val Val Asp Leu Lys Gln Thr Ile Ile

515 520 525
Pro Asp Tyr Arg Asn Met Ile Gly Gln Gly Ala
530 535

<210> 3516

<211> 142

<212> PRT

<213> Homo sapiens

<400> 3516

Met Leu Phe Phe Arg His Ala Arg Lys His Phe Ser Gln Ala Glu Gly
1 5 10 15
Ser Gln Leu Asp Glu Val Arg Gln Ala Met Gly Met Leu Ala Phe Pro
20 25 30
Pro Asp Thr His Ile Ser Pro Tyr Lys Asp Leu Leu Asp Pro Ala Arg
35 40 45
Trp Arg Met Leu Ile Gln Gln Phe Arg Tyr Asp Asn Tyr Arg Leu His
50 55 60
Gln Leu Gly Asn Asn Ser Val Phe Thr Leu Thr Leu Gln Ala Gly Leu
65 70 75 80
Ser Ala Ile Lys Thr Pro Tyr Pro Thr Ser Arg Ala Gln Cys Gly Leu
85 90 95
Ala Trp Gly Trp His Leu Trp Ser Tyr Phe Asn Thr Leu Thr Leu His
100 105 110
Leu Ala Thr Leu Val Leu Pro Pro Gln Thr Ala Pro Ser Ser Arg Val
115 120 125
Leu His Leu Arg Gly Val Trp Met Val Gly Val Gly Pro Cys
130 135 140

<210> 3517

<211> 136

<212> PRT

<213> Homo sapiens

<400> 3517

Met Ser Pro Val Gly Cys Pro Pro Val Ala Ser Arg Leu Arg Pro Trp

1 5 10 15

Gln Glu Glu Val Ala Leu Leu Leu Pro Leu Arg Glu Ala Gln Val Pro

20 25 30

Leu Gly Asp Glu His Leu Ala Pro Phe Leu Val Tyr Val Pro Phe Ser

35 40 45

Thr Ser Glu Leu Tyr Asn Gly Lys Asp Tyr Lys Pro Thr Phe Ser Glu

50 55 60

Lys Pro Gln Val Leu Thr Ser Leu Met Glu Ser Met Leu Trp Thr His

65 70 75 80

Trp Pro Thr Trp Asp Asp Cys Gln Gln Leu Leu Leu Thr Leu Phe Asn

85 90 95

Ala Glu Glu Lys Glu Gln Ile Gln Arg Glu Ala Ser Lys Tyr Phe Leu

100 105 110

Thr Ser Ala Asn Arg Pro Glu Val Glu Ala Arg Gly Leu Leu Lys Glu

115 120 125

Val Phe Pro Ser Thr Arg Pro Asn

130 135

<210> 3518

<211> 110

<212> PRT

<213> Homo sapiens

<400> 3518

Met Ala Lys Leu Val Gln Glu Glu His Gly Lys Val Gly Ile Leu Tyr

1 5 10 15

Ser Ala Val Val Pro Ser Gly Phe Leu Cys Ser Leu Val Asp Val Leu

20 25 30

Cys Val His Leu Thr Leu Leu Gly Gly Thr Glu Ile Ser Leu Leu Gly

35 40 45

Lys Ile Gln Tyr Asp Val Ile Gly Ala Leu Pro Ser Leu Ser Cys Leu

50 55 60

Pro Phe Ser Trp Glu Pro Ile His Val Thr Glu Thr Thr Tyr Trp Ser

65 70 75 80

Lys Thr Asp Cys Lys Ser Ser Gly Tyr Ile Gly Thr Phe Leu Val Ser

85 90 95

Ser Leu Leu Gln Pro Gly Ile Met Glu Gly Val Trp Ile Lys

100 105 110

<210> 3519

<211> 126

<212> PRT

<213> Homo sapiens

<400> 3519

Met His Leu Leu Leu Leu Glu Asn Arg Leu Leu Pro Cys Gln Thr Pro

1 5 10 15

Val Leu Tyr Ile Leu Trp Ser Val Thr Thr Gln Ser Val Val His Gly
 20 25 30
 Pro Glu Leu Leu Gly Ser Pro Gly Ser Leu Leu Arg Ser Ala Glu Pro
 35 40 45
 Gln Val Pro Pro Gln Thr Trp Asp Ser Asp Pro Leu Asn Gln Ile Cys
 50 55 60
 Ile Phe Ile Lys Ala Pro Gly Asp Leu Cys Thr Gln Gln Ser Leu Arg
 65 70 75 80
 Ser Pro Ala Ser Glu Leu Thr Ser Phe Thr Pro Arg Gly Pro Asn Ile
 85 90 95
 Ala Glu Glu Thr Arg Gly Phe Gln His Lys Val Ala Leu Asp Leu Gln
 100 105 110
 Pro Met Glu Tyr Ile Arg Asp Val Ser Ala Leu Leu Trp Gly
 115 120 125

<210> 3520

<211> 111

<212> PRT

<213> Homo sapiens

<400> 3520

Met Gly Leu Arg Ala Asp Ser Pro Ser Leu Lys Val Ala Val Ser Ile
 1 5 10 15
 Gln Ser Pro Pro Ser Ser Pro Gln Gly Lys Ser Gly Pro Leu Glu His
 20 25 30
 Pro Thr Asp Pro Ser Trp Leu Leu Cys Phe Leu His Thr Gln Ala His
 35 40 45
 Leu Thr Cys Arg Ala Pro Ser Cys Ser Arg Ala Leu Leu Ser Arg Phe

50	55	60
Pro Pro Ser Met Leu Ser Thr His His Ser Gly Trp Leu His Ser Pro		
65	70	75
Ile Ser Glu Val Gln Pro Gln Val Thr Ser Ser Glu Asn Phe Phe Leu		
85	90	95
Thr Ala Gln Pro Ser Arg Ile Leu Leu Ser Gln Ser Ser Ser Val		
100	105	110

<210> 3521

<211> 205

<212> PRT

<213> Homo sapiens

<400> 3521

Met Ala Glu Phe Ser Gln Lys Arg Gly Lys Arg Arg Ser Asp Glu Gly		
1	5	10
Leu Gly Ser Met Val Asp Phe Leu Leu Ala Asn Ala Arg Leu Val Leu		
20	25	30
Gly Val Gly Gly Ala Ala Val Leu Gly Ile Ala Thr Leu Ala Val Lys		
35	40	45
Arg Phe Ile Asp Arg Ala Thr Ser Pro Arg Asp Glu Asp Asp Thr Lys		
50	55	60
Ala Asp Ser Trp Lys Glu Leu Ser Leu Leu Lys Ala Thr Pro His Leu		
65	70	75
Gln Pro Arg Pro Pro Pro Ala Ala Leu Ser Gln Pro Val Leu Pro Leu		
85	90	95
Ala Pro Ser Ser Ser Ala Pro Gly Glu Ala Ala Gly Leu Arg Ala Gly		
100	105	110

Pro Cys Asp His Pro Ser Ser Pro Gly Gly Phe Gly Gln Thr Ala Gly
 115 120 125
 Trp Arg His Arg Pro Gly Ala Ala Gly Leu Leu Ser Glu Gln Val Pro
 130 135 140
 Gly Thr Ala Leu Trp Gly Ile Arg Ala Trp Gly Ala Ala Leu Arg Arg
 145 150 155 160
 Ala Ala Gly Gly Gly Cys Gly Pro Cys Ala Ser Pro Gly Ala Thr Gly
 165 170 175
 Ala Gly Ala Gly Pro Val Glu Pro Gly Ala Gly Arg Gly His Cys Gly
 180 185 190
 Glu Gly Pro Ser Leu Leu Gly Arg Ala Gln Asp Ala Ala
 195 200 205

<210> 3522

<211> 157

<212> PRT

<213> Homo sapiens

<400> 3522

Met Leu Val Phe Leu Gln Glu Met Asp Lys Pro Cys Gly Cys Pro Pro
 1 5 10 15
 Gly Val Cys Asp His Gly Thr Gly Asp Arg Arg Asp Pro Trp Tyr Ser
 20 25 30
 Thr Val Gly Leu Leu Pro Pro Val Arg Ala Met Ser Gln Arg Asn Leu
 35 40 45
 Asn Ala Lys Thr Glu Gln Gly Pro Thr Gly Val Thr Met Thr Ser Asn
 50 55 60
 Pro Ile Thr Trp Gly Gln Ile Lys Lys Thr Thr Gln Glu Ala Glu Lys

65 70 75 80
 Leu Leu Glu Arg Gln Gly Gln Ala Lys Thr Pro Asp Ser Met Phe Leu
 85 90 95
 Ala Met Leu Ala Val Val Ser Cys Ala Val Cys Phe Pro Cys Val Glu
 100 105 110
 Ala Lys Thr Tyr Trp Ala Tyr Val Pro Asn Pro Leu Val Val Arg Leu
 115 120 125
 Val Leu Trp Ser Asp Thr Pro Pro Glu Ile Tyr Tyr Asp Gln Gly Ala
 130 135 140
 Trp Ala Pro Gly Pro Leu Thr Pro Ser Asp Thr Glu Gln
 145 150 155

<210> 3523

<211> 132

<212> PRT

<213> Homo sapiens

<400> 3523

Met Pro Pro Cys Pro Val Asn Phe Tyr Ile Phe Ser Arg Asp Arg Val
 1 5 10 15
 Leu Pro Cys Trp Pro Gly Trp Ser Arg Thr Pro Asp Leu Pro Arg Pro
 20 25 30
 Pro Lys Val Leu Gly Leu Gln Pro Arg Leu Arg Thr Phe Asn Ser Cys
 35 40 45
 Ser Val Leu Pro Asp Phe Arg Gly Leu Leu Thr Val Arg Tyr Lys Thr
 50 55 60
 Ser Cys Leu Ser Leu Leu Phe Leu Arg Ser Gly Ser Arg Glu Leu Leu
 65 70 75 80

Gly Gln Ile Pro Ser Cys Leu Ala Thr Leu Leu Pro Ser Asp Arg Lys
 85 90 95
 Asp Ser Tyr Phe His Asn Arg Ser Gly Gln Ala Arg His Ser Cys Ser
 100 105 110
 Arg Leu Trp Ser Gln Tyr Cys Gly Thr Pro Arg Gln Ala Asp Gln Leu
 115 120 125
 Ser Pro Gly Val
 130

<210> 3524

<211> 477

<212> PRT

<213> Homo sapiens

<400> 3524

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Leu Arg Gly
 1 5 10 15
 Val Glu Cys Gln Gly Leu Leu Glu Glu Ser Gly Gly Asp Val Val Gln
 20 25 30
 Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Pro Phe
 35 40 45
 Gly Ile Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Ala Leu
 50 55 60
 Glu Trp Val Ala Ala Ile Trp His Asn Gly Ser Asn Glu Tyr Tyr Ala
 65 70 75 80
 Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Ser
 85 90 95
 Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Gly Asp Asp Thr Ala Val

100	105	110
Tyr Tyr Cys Ala Arg Asp Pro Lys Phe Gly Tyr Cys Ser Ser Thr Ser		
115	120	125
Cys Leu Thr Asn Tyr Phe Asp Ser Trp Gly Gln Gly Thr Leu Val Thr		
130	135	140
Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro		
145	150	155
Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val		
165	170	175
Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala		
180	185	190
Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly		
195	200	205
Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly		
210	215	220
Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys		
225	230	235
Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys		
245	250	255
Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu		
260	265	270
Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu		
275	280	285
Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys		
290	295	300
Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys		
305	310	315
Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu		
325	330	335

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
 340 345 350
 Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys
 355 360 365
 Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
 370 375 380
 Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
 385 390 395 400
 Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
 405 410 415
 Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly
 420 425 430
 Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln
 435 440 445
 Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
 450 455 460
 His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 465 470 475

<210> 3525

<211> 128

<212> PRT

<213> Homo sapiens

<400> 3525

Met Asn Pro Trp Thr Lys Glu Val Glu Tyr Ile Val Ser Thr Asn Thr
 1 5 10 15
 Val Val Leu Ala Asn Val Leu Glu Gly Gly Asp Pro Thr Phe Pro Gln

	20		25		30										
Leu	Thr	Ala	Ser	Pro	His	Ser	Met	Asp	Ser	Met	Leu	Pro	Ser	Gly	Glu
	35		40		45										
Gly	Gly	Pro	Lys	Arg	Thr	His	Pro	Thr	Val	Pro	Gly	Ile	Pro	Gly	Gly
	50		55		60										
Thr	Arg	Ala	Gly	Ala	Gly	Lys	Ile	Gly	Arg	Met	Ile	Ala	Glu	Glu	Ile
	65		70		75										80
Met	Glu	Ile	His	Arg	Gln	Val	Thr	Pro	Ser	Ser	Ser	Ser	Val	Lys	Pro
			85		90										95
Val	Val	Leu	Asn	Pro	Gly	Lys	Phe	Ile	Pro	Pro	Gly	Asn	Ile	Leu	Gln
	100		105		110										
Cys	Gln	Glu	Thr	Phe	Leu	Val	Phe	Thr	Thr	Gly	Trp	Glu	Val	Ala	Thr
	115		120		125										

<210> 3526

<211> 421

<212> PRT

<213> Homo sapiens

<400> 3526

Met	Arg	Thr	Gln	Arg	Lys	Gly	Asp	Gly	Gln	Thr	Gly	Ser	Ser	Leu	Pro
1				5					10					15	
Val	Glu	Ala	Ser	Met	Val	Thr	Pro	Ser	Pro	Gly	Trp	Ser	Val	His	Thr
			20						25					30	
Gly	Asp	Leu	Asp	Gly	His	Pro	Leu	Pro	Arg	Met	Val	Ser	Ala	His	Arg
		35							40					45	
Arg	Ser	Arg	Trp	Ser	Pro	Pro	Pro	Gln	Asp	Gly	Gln	Cys	Thr	Pro	Glu
		50						55						60	

Ile Ser Met Val Thr Pro Ser Pro Gly Trp Ser Val His Thr Gly Asp
65 70 75 80
Leu Asp Gly His Pro Leu Pro Arg Met Val Ser Ala His Arg Arg Ser
85 90 95
Arg Trp Ser Pro Pro Pro Gln Asp Ala Gln Cys Thr Pro Glu Ile Ser
100 105 110
Met Val Thr Pro Ser Pro Gly Cys Ser Val His Thr Gly Asp Leu Asp
115 120 125
Gly His Pro Leu Pro Arg Met Leu Ser Ala His Arg Arg Ser Arg Trp
130 135 140
Ser Pro Pro Pro Gln Asp Ala Gln Cys Thr Pro Glu Ile Ser Met Val
145 150 155 160
Thr Pro Ser Pro Gly Trp Ser Val His Thr Gly Asp Leu Asp Gly His
165 170 175
Pro Leu Pro Arg Met Val Ser Ala His Arg Arg Ser Arg Trp Ser Pro
180 185 190
Pro Pro Val Pro Val Val Arg Val Gly Glu Glu Val Gln Glu Pro Gln
195 200 205
Ser Ser Cys Ser Arg Ser Pro Gly Ser Gln Arg Leu Gly Pro Ser Gln
210 215 220
Arg Pro Leu Gly His Glu Glu Gly Gln Gln Gln Pro Glu Leu Arg Met
225 230 235 240
Ala Ser Arg Lys Gly Pro Cys Gln Pro Leu Ser Gln Thr Trp Ser Val
245 250 255
Gly Ile Arg Trp Gly Pro Ser Trp Met Pro Leu Gly Gly Trp Trp Ala
260 265 270
Gln Pro Cys Ile Trp Thr Leu Lys Ala Lys Glu Thr Pro Ala Ser Gln
275 280 285
Thr Thr Ser Ala Ile Leu Pro Leu Leu Gly Val Ala Gly Val Glu Gly

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Gln Arg Lys Ile Asp Gly Thr Thr Glu Glu Glu Asp Asn Ile Glu Leu
 35 40 45
 Asn Glu Glu Gly Arg Pro Val Gln Thr Ser Arg Pro Ser Pro Pro Leu
 50 55 60
 Cys Asp Cys His Cys Cys Gly Leu Pro Lys Arg Tyr Ile Ile Ala Ile
 65 70 75 80
 Met Ser Gly Leu Gly Phe Cys Ile Ser Phe Gly Ile Arg Cys Asn Leu
 85 90 95
 Gly Val Ala Ile Val Glu Met Val Asn Asn Ser Thr Val Tyr Val Asp
 100 105 110
 Gly Lys Pro Glu Ile Gln Thr Ala Gln Phe Asn Trp Asp Pro Glu Thr
 115 120 125
 Val Gly Leu Ile His Gly Ser Phe Phe Trp Gly Tyr Ile Met Thr Gln
 130 135 140
 Ile Pro Gly Gly Phe Ile Ser Asn Lys Phe Ala Ala Asn Arg Val Phe
 145 150 155 160
 Gly Ala Ala Ile Phe Leu Thr Ser Thr Leu Asn Met Phe Ile Pro Ser
 165 170 175
 Ala Ala Arg Val His Tyr Gly Cys Val Met Cys Val Arg Ile Leu Gln
 180 185 190
 Gly Leu Val Glu Gly Val Thr Tyr Pro Ala Cys His Gly Met Trp Ser
 195 200 205
 Lys Trp Ala Pro Pro Leu Glu Arg Ser Arg Leu Ala Thr Thr Ser Phe
 210 215 220
 Cys Gly Ser Tyr Ala Gly Ala Val Val Ala Met Pro Leu Ala Gly Val
 225 230 235 240
 Leu Val Gln Tyr Ile Gly Trp Ser Ser Val Phe Tyr Ile Tyr Gly Met
 245 250 255
 Phe Gly Ile Ile Trp Tyr Met Phe Trp Leu Leu Gln Ala Tyr Glu Cys

260 265 270
Pro Ala Ala His Pro Thr Ile Ser Asn Glu Glu Lys Thr Tyr Ile Glu
275 280 285
Thr Ser Ile Gly Glu Gly Ala Asn Val Val Ser Leu Ser Lys Phe Ser
290 295 300
Thr Pro Trp Lys Arg Phe Phe Thr Ser Leu Pro Val Tyr Ala Ile Ile
305 310 315 320
Val Ala Asn Phe Cys Arg Ser Trp Thr Phe Tyr Leu Leu Leu Ile Ser
325 330 335
Gln Pro Ala Tyr Phe Glu Glu Val Phe Gly Phe Ala Ile Ser Lys Val
340 345 350
Gly Leu Leu Ser Ala Val Pro His Met Val Met Thr Ile Val Val Pro
355 360 365
Ile Gly Gly Gln Leu Ala Asp Tyr Leu Arg Ser Arg Gln Ile Leu Thr
370 375 380
Thr Thr Ala Val Arg Lys Ile Met Asn Cys Gly Gly Phe Gly Met Glu
385 390 395 400
Ala Thr Leu Leu Leu Val Val Gly Phe Ser His Thr Lys Gly Val Ala
405 410 415
Ile Ser Phe Leu Val Leu Ala Val Gly Phe Ser Gly Phe Ala Ile Ser
420 425 430
Gly Phe Asn Val Asn His Leu Asp Ile Ala Pro Arg Tyr Ala Ser Ile
435 440 445
Leu Met Gly Ile Ser Asn Gly Val Gly Thr Leu Ser Gly Met Val Cys
450 455 460
Pro Leu Ile Val Gly Ala Met Thr Arg His Lys Thr Arg Glu Glu Trp
465 470 475 480
Gln Asn Val Phe Leu Ile Ala Ala Leu Val His Tyr Ser Gly Val Ile
485 490 495

Phe Tyr Gly Val Phe Ala Ser Gly Glu Lys Gln Glu Trp Ala Asp Pro
 500 505 510
 Glu Asn Leu Ser Glu Glu Lys Cys Gly Ile Ile Asp Gln Asp Glu Leu
 515 520 525
 Ala Glu Glu Ile Glu Leu Asn His Glu Ser Phe Ala Ser Pro Lys Lys
 530 535 540
 Lys Met Ser Tyr Gly Ala Thr Ser Gln Asn Cys Glu Val Gln Lys Lys
 545 550 555 560
 Glu Trp Lys Gly Gln Arg Gly Ala Thr Leu Asp Glu Glu Glu Leu Thr
 565 570 575
 Ser Tyr Gln Asn Glu Glu Arg Asn Phe Ser Thr Ile Ser
 580 585

<210> 3528

<211> 893

<212> PRT

<213> Homo sapiens

<400> 3528

Met Lys Thr Asp Gly Ala Thr Val Lys Ala Ala Gly Leu Ser Pro Leu
 1 5 10 15
 Val Ser Gly Thr Thr Val Gln Thr Gly Pro Leu Pro Thr Leu Val Ser
 20 25 30
 Gly Gly Thr Ile Leu Ala Thr Val Pro Leu Val Val Asp Ala Glu Lys
 35 40 45
 Leu Pro Ile Asn Arg Leu Ala Ala Gly Ser Lys Ala Pro Ala Ser Ala
 50 55 60
 Gln Ser Arg Gly Glu Lys Arg Thr Ala His Asn Ala Ile Glu Lys Arg

65	70	75	80
Tyr Arg Ser Ser Ile Asn Asp Lys Ile Ile Glu Leu Lys Asp Leu Val			
	85	90	95
Val Gly Thr Glu Ala Lys Leu Asn Lys Ser Ala Val Leu Arg Lys Ala			
	100	105	110
Ile Asp Tyr Ile Arg Phe Leu Gln His Ser Asn Gln Lys Leu Lys Gln			
	115	120	125
Glu Asn Leu Ser Leu Arg Thr Ala Val His Lys Ser Lys Ser Leu Lys			
	130	135	140
Asp Leu Val Ser Ala Cys Gly Ser Gly Gly Asn Thr Asp Val Leu Met			
145	150	155	160
Glu Gly Val Lys Thr Glu Val Glu Asp Thr Leu Thr Pro Pro Pro Ser			
	165	170	175
Asp Ala Gly Ser Pro Phe Gln Ser Ser Pro Leu Ser Leu Gly Ser Arg			
	180	185	190
Gly Ser Gly Ser Gly Gly Ser Gly Ser Asp Ser Glu Pro Asp Ser Pro			
	195	200	205
Val Phe Glu Asp Ser Lys Ala Lys Pro Glu Gln Arg Pro Ser Leu His			
	210	215	220
Ser Arg Gly Met Leu Asp Arg Ser Arg Leu Ala Leu Cys Thr Leu Val			
225	230	235	240
Phe Leu Cys Leu Ser Cys Asn Pro Leu Ala Ser Leu Leu Gly Ala Arg			
	245	250	255
Gly Leu Pro Ser Pro Ser Asp Thr Thr Ser Val Tyr His Ser Pro Gly			
	260	265	270
Arg Asn Val Leu Gly Thr Glu Ser Arg Asp Gly Pro Gly Trp Ala Gln			
	275	280	285
Trp Leu Leu Pro Pro Val Val Trp Leu Leu Asn Gly Leu Leu Val Leu			
	290	295	300

Val Ser Leu Val Leu Leu Phe Val Tyr Gly Glu Pro Val Thr Arg Pro
 305 310 315 320
 His Ser Gly Pro Ala Val Tyr Phe Trp Arg His Arg Lys Gln Ala Asp
 325 330 335
 Leu Asp Leu Ala Arg Gly Asp Phe Ala Gln Ala Ala Gln Gln Leu Trp
 340 345 350
 Leu Ala Leu Arg Ala Leu Gly Arg Pro Leu Pro Thr Ser His Leu Asp
 355 360 365
 Leu Ala Cys Ser Leu Leu Trp Asn Leu Ile Arg His Leu Leu Gln Arg
 370 375 380
 Leu Trp Val Gly Arg Trp Leu Ala Gly Arg Ala Gly Gly Leu Gln Gln
 385 390 395 400
 Asp Cys Ala Leu Arg Val Asp Ala Ser Ala Ser Ala Arg Asp Ala Ala
 405 410 415
 Leu Val Tyr His Lys Leu His Gln Leu His Thr Met Gly Lys His Thr
 420 425 430
 Gly Gly His Leu Thr Ala Thr Asn Leu Ala Leu Ser Ala Leu Asn Leu
 435 440 445
 Ala Glu Cys Ala Gly Asp Ala Val Ser Val Ala Thr Leu Ala Glu Ile
 450 455 460
 Tyr Val Ala Ala Ala Leu Arg Val Lys Thr Ser Leu Pro Arg Ala Leu
 465 470 475 480
 His Phe Leu Thr Arg Phe Phe Leu Ser Ser Ala Arg Gln Ala Cys Leu
 485 490 495
 Ala Gln Ser Gly Ser Val Pro Pro Ala Met Gln Trp Leu Cys His Pro
 500 505 510
 Val Gly His Arg Phe Phe Val Asp Gly Asp Trp Ser Val Leu Ser Thr
 515 520 525
 Pro Trp Glu Ser Leu Tyr Ser Leu Ala Gly Asn Pro Val Asp Pro Leu

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Arg Leu Ala Gln Ser Phe Arg Pro Ala Met Arg Arg Val Phe Leu His
 770 775 780
 Glu Ala Thr Ala Arg Leu Met Ala Gly Ala Ser Pro Thr Arg Thr His
 785 790 795 800
 Gln Leu Leu Asp Arg Ser Leu Arg Arg Arg Ala Gly Pro Gly Gly Lys
 805 810 815
 Gly Gly Ala Val Ala Glu Leu Glu Pro Arg Pro Thr Arg Arg Glu His
 820 825 830
 Ala Glu Ala Leu Leu Leu Ala Ser Cys Tyr Leu Pro Pro Gly Phe Leu
 835 840 845
 Ser Ala Pro Gly Gln Arg Val Gly Met Leu Ala Glu Ala Ala Arg Thr
 850 855 860
 Leu Glu Lys Leu Gly Asp Arg Arg Leu Leu His Asp Cys Gln Gln Met
 865 870 875 880
 Leu Met Arg Leu Gly Gly Gly Thr Thr Val Thr Ser Ser
 885 890

<210> 3529

<211> 329

<212> PRT

<213> Homo sapiens

<400> 3529

Met Pro Leu Gly Arg Gln Ser His Arg His His Arg Thr His Gly Gln
 1 5 10 15
 Lys His Arg Arg Arg Gly Arg Gly Lys Gly Ala Ser Gln Gly Glu Glu
 20 25 30
 Gly Leu Glu Ala Leu Ala His Asp Thr Pro Ser Gln Arg Val Gln Phe

35	40	45
Ile Leu Gly Thr Glu Glu Asp Glu Glu His Val Pro His Glu Leu Phe		
50	55	60
Thr Glu Leu Asp Glu Ile Cys Met Lys Glu Gly Glu Asp Ala Glu Trp		
65	70	75
Lys Glu Thr Ala Arg Trp Leu Lys Phe Glu Glu Asp Val Glu Asp Gly		
85	90	95
Gly Glu Arg Trp Ser Lys Pro Tyr Val Ala Thr Leu Ser Leu His Ser		
100	105	110
Leu Phe Glu Leu Arg Ser Cys Leu Ile Asn Gly Thr Val Leu Leu Asp		
115	120	125
Met His Ala Asn Ser Ile Glu Glu Ile Ser Asp Leu Ile Leu Asp Gln		
130	135	140
Gln Glu Leu Ser Ser Asp Leu Asn Asp Ser Met Gly Val Lys Val Arg		
145	150	155
Glu Ala Leu Leu Lys Lys His His His Gln Asn Glu Lys Lys Arg Asn		
165	170	175
Asn Leu Ile Pro Ile Val Arg Ser Phe Ala Glu Val Gly Lys Lys Gln		
180	185	190
Ser Asp Pro His Leu Met Asp Lys His Gly Gln Thr Val Ser Pro Gln		
195	200	205
Ser Val Pro Thr Thr Asn Leu Glu Val Lys Asn Gly Val Asn Cys Glu		
210	215	220
His Ser Pro Val Asp Leu Ser Lys Val Asp Leu His Phe Met Lys Lys		
225	230	235
Ile Pro Thr Gly Ala Glu Ala Ser Asn Val Leu Val Gly Glu Val Asp		
245	250	255
Ile Leu Asp Arg Pro Ile Val Ala Phe Val Arg Leu Ser Pro Ala Val		
260	265	270

Leu Leu Ser Gly Leu Thr Glu Val Pro Ile Pro Thr Arg Phe Leu Phe
 275 280 285
 Ile Leu Leu Gly Pro Val Gly Lys Gly Gln Gln Tyr His Glu Ile Gly
 290 295 300
 Arg Ser Met Ala Thr Ile Met Thr Asp Glu Val Cys Ala Thr Phe Ala
 305 310 315 320
 Ser Val Phe His Leu Ile Asn Ile Tyr
 325

<210> 3530

<211> 130

<212> PRT

<213> Homo sapiens

<400> 3530

Met Asp Ala Lys Arg Arg Pro Ala Trp Pro Pro Glu Gln Gln Leu Thr
 1 5 10 15
 Ala Arg Leu Met Leu Asp Gly Thr Pro Gly Arg Val Asp Met Arg Pro
 20 25 30
 Leu Leu Ala Arg Asp Ala Val Arg Arg Pro Thr Trp Leu Pro Glu Gln
 35 40 45
 Gln Leu Thr Ala Arg Leu Thr Val Gly Gln Gly Phe Val Ala Trp Val
 50 55 60
 Phe Ser Ser Leu Pro Gly Ala Ala Arg Ser Ser Cys Ala Asp Trp Trp
 65 70 75 80
 Arg Trp Glu Gly Leu Leu Gly Leu Met Gly Thr Pro Ala Ser Leu Ser
 85 90 95
 Gly Val Gln Gln Pro Cys Arg Thr Trp Pro Pro Val Leu Ser Leu Gly

100	105	110
Ala Leu Ala Gly Ala Ala Leu Ser Asn Asp Ala Gly Pro Glu Gln Leu		
115	120	125
Pro Thr		
130		

<210> 3531

<211> 131

<212> PRT

<213> Homo sapiens

<400> 3531

Met Cys Tyr Ile His Glu Ile Ile Thr Thr Ile Met Ile Met Cys Leu		
1	5	10
Glu Phe Ser Val Phe Ile Tyr Phe Tyr Phe Phe Glu Val Glu Ser Cys		
20	25	30
Ser Val Pro Arg Leu Glu Cys Ser Gly Ala Ile Leu Ala His Cys Gly		
35	40	45
Leu Arg Leu Pro Ser Leu Ser Asp Ser Pro Ala Ser Ala Ser Arg Val		
50	55	60
Asp Arg Ile Ala Gly Val His His His Thr Trp Ile Ile Phe Val Phe		
65	70	75
Leu Val Gly Thr Gly Phe Arg His Val Gly Gln Ala Gly Leu Glu Leu		
85	90	95
Leu Thr Ser Ser Asp Pro Pro Ala Leu Ala Pro Gln Gly Ala Gly Ile		
100	105	110
Thr Gly Met Asn His Cys Ala Trp Pro Asn Tyr Gln Tyr Leu Asn Leu		
115	120	125

Asn Lys Met

130

<210> 3532

<211> 729

<212> PRT

<213> Homo sapiens

<400> 3532

Met Ser Ala Cys Ala Gly Thr Phe His Gly Ala Lys Val Lys Gly Gly

1 5 10 15

Cys Gly Gln Arg Gly Thr Tyr His Arg Ser His Ser Gly Gln Thr Cys

20 25 30

Ala Val Val Val Met Cys Lys Gln Leu Tyr Trp Asn Trp Ile Ser Thr

35 40 45

Phe Thr Ser Gly Ile Arg Leu Glu Glu Gln Arg Ala Ala Asp Gly Lys

50 55 60

Thr Leu Lys Gln Gln Thr Val Pro Gln Gln Lys Val Gly Val Thr Gly

65 70 75 80

Pro Pro Asp Pro Gln Val Arg Cys Pro Ser Val Ile Glu Phe Gly Lys

85 90 95

Tyr Glu Ile His Thr Trp Tyr Ser Ser Pro Tyr Pro Gln Glu Tyr Ser

100 105 110

Arg Leu Pro Lys Leu Tyr Leu Cys Glu Phe Cys Leu Lys Tyr Met Lys

115 120 125

Ser Arg Thr Ile Leu Gln Gln His Met Lys Lys Cys Gly Trp Phe His

130 135 140

Pro Pro Ala Asn Glu Ile Tyr Arg Lys Asn Asn Ile Ser Val Phe Glu

145 150 155 160
Val Asp Gly Asn Val Ser Thr Ile Tyr Cys Gln Asn Leu Cys Leu Leu
 165 170 175
Ala Lys Leu Phe Leu Asp His Lys Thr Leu Tyr Tyr Asp Val Glu Pro
 180 185 190
Phe Leu Phe Tyr Val Leu Thr Gln Asn Asp Val Lys Gly Cys His Leu
 195 200 205
Val Gly Tyr Phe Ser Lys Glu Lys His Cys Gln Gln Lys Tyr Asn Val
 210 215 220
Ser Cys Ile Met Ile Leu Pro Gln Tyr Gln Arg Lys Gly Tyr Gly Arg
225 230 235 240
Phe Leu Ile Asp Phe Ser Tyr Leu Leu Ser Lys Arg Glu Gly Gln Ala
 245 250 255
Gly Ser Pro Glu Lys Pro Leu Ser Asp Leu Gly Arg Leu Ser Tyr Met
 260 265 270
Ala Tyr Trp Lys Ser Val Ile Leu Glu Cys Leu Tyr His Gln Asn Asp
 275 280 285
Lys Gln Ile Ser Ile Lys Lys Leu Ser Lys Leu Thr Gly Ile Cys Pro
 290 295 300
Gln Asp Ile Thr Ser Thr Leu His His Leu Arg Met Leu Asp Phe Arg
305 310 315 320
Ser Asp Gln Phe Val Ile Ile Arg Arg Glu Lys Leu Ile Gln Asp His
 325 330 335
Met Ala Lys Leu Gln Leu Asn Leu Arg Pro Val Asp Val Asp Pro Glu
 340 345 350
Cys Leu Arg Trp Thr Pro Val Ile Val Ser Asn Ser Val Val Ser Glu
 355 360 365
Glu Glu Glu Glu Glu Ala Glu Glu Gly Glu Asn Glu Glu Pro Gln Cys
 370 375 380

Gln Glu Arg Glu Leu Glu Ile Ser Val Gly Lys Ser Val Ser His Glu
385 390 395 400
Asn Lys Glu Gln Asp Ser Tyr Ser Val Glu Ser Glu Lys Lys Pro Glu
405 410 415
Val Met Ala Pro Val Ser Ser Thr Arg Leu Ser Lys Gln Val Leu Pro
420 425 430
His Asp Ser Leu Pro Ala Asn Ser Gln Pro Ser Arg Arg Gly Arg Trp
435 440 445
Gly Arg Lys Asn Arg Lys Thr Gln Glu Arg Phe Gly Asp Lys Asp Ser
450 455 460
Lys Leu Leu Leu Glu Glu Thr Ser Ser Ala Pro Gln Glu Gln Tyr Gly
465 470 475 480
Glu Cys Gly Glu Lys Ser Glu Ala Thr Gln Glu Gln Tyr Thr Glu Ser
485 490 495
Glu Glu Gln Leu Val Ala Ser Glu Glu Gln Pro Ser Gln Asp Gly Lys
500 505 510
Pro Asp Leu Pro Lys Arg Arg Leu Ser Glu Gly Val Glu Pro Trp Arg
515 520 525
Gly Gln Leu Lys Lys Ser Pro Glu Ala Leu Lys Cys Arg Leu Thr Glu
530 535 540
Gly Ser Glu Arg Leu Pro Arg Arg Tyr Ser Glu Gly Asp Arg Ala Val
545 550 555 560
Leu Arg Gly Phe Ser Glu Ser Ser Glu Glu Glu Glu Glu Pro Glu Ser
565 570 575
Pro Arg Ser Ser Ser Pro Pro Ile Leu Thr Lys Pro Thr Leu Lys Arg
580 585 590
Lys Lys Pro Phe Leu His Arg Arg Arg Arg Val Arg Lys Arg Lys His
595 600 605
His Asn Ser Ser Val Val Thr Glu Thr Ile Ser Glu Thr Thr Glu Val

610 615 620
 Leu Asp Glu Pro Phe Glu Asp Ser Asp Ser Glu Arg Pro Met Pro Arg
 625 630 635 640
 Leu Glu Pro Thr Phe Glu Ile Asp Glu Glu Glu Glu Glu Glu Asp Glu
 645 650 655
 Asn Glu Leu Phe Pro Arg Glu Tyr Phe Arg Arg Leu Ser Ser Gln Asp
 660 665 670
 Val Leu Arg Cys Gln Ser Ser Ser Lys Arg Lys Ser Lys Asp Glu Glu
 675 680 685
 Glu Asp Glu Glu Ser Asp Asp Ala Asp Asp Thr Pro Ile Leu Lys Pro
 690 695 700
 Val Ser Leu Leu Arg Lys Arg Asp Val Lys Asn Ser Pro Leu Glu Pro
 705 710 715 720
 Asp Thr Ser Thr Pro Leu Lys Lys Lys
 725

<210> 3533

<211> 117

<212> PRT

<213> Homo sapiens

<400> 3533

Met Leu Met Leu Tyr Pro Lys Thr Leu Leu Asn Leu Phe Ile Ser Ser
 1 5 10 15
 Lys Asn Val Leu Val Asp Ser Leu Gly Phe Phe Lys Cys Lys Ile Met
 20 25 30
 Leu Ser Ala His Lys Asp Asn Leu Thr Ser Ser Phe Pro Ile Trp Thr
 35 40 45

Arg Leu Ile Ser Phe Ser Cys Leu Ile Ala Leu Ala Trp Asn Ser Ser
 50 55 60
 Thr Met Leu Asp Arg Ser Asp Glu Ser Glu His Ser Tyr Leu Val Pro
 65 70 75 80
 Asp Leu Ser Gly Lys Ser Phe Ser Cys Ser Ala Leu Ser Met Ile Leu
 85 90 95
 Ala Val Gly Leu Leu Cys Met Ala Phe Ile Met Leu Met Tyr Val Pro
 100 105 110
 Ser Asn Pro Val Cys
 115

<210> 3534

<211> 172

<212> PRT

<213> Homo sapiens

<400> 3534

Met Gly Asn Asn Thr Val Leu Asp Val Leu Arg Arg Glu Gly Tyr Glu
 1 5 10 15
 Val Glu His Ala Pro Ala Gly Arg Pro Ile His Lys Gly Lys Ser Lys
 20 25 30
 Lys Thr Ser Thr Arg Pro Thr Leu Ser Thr Ile Phe Ala Pro Lys Val
 35 40 45
 Pro Thr Leu Glu Val Pro Ala Pro Glu Ala Val Ser Ser Gly His Ser
 50 55 60
 Thr Leu Pro Pro Leu Val Ser Arg Pro Gly Ser Ala Asp Thr Pro Ser
 65 70 75 80
 Glu Ala Glu Gln Arg Phe Arg Lys Lys Arg Arg Arg Ser Gln Arg Arg

	85	90	95
Pro Arg Leu Arg Gln Phe Ser Asp Leu Trp Val Arg Leu Glu Glu Ser			
100	105	110	
Asp Ile Val Pro Gln Leu Gln Val Pro Val Leu Asp Arg His Ile Ser			
115	120	125	
Thr Glu Leu Arg Leu Pro Arg Arg Gly His Ser His His Ser Gln Met			
130	135	140	
Val Ala Ser Ser Ala Cys Leu Ser Leu Trp Thr Pro Val Phe Trp Val			
145	150	155	160
Leu Val Leu Ala Phe Gln Thr Glu Thr Pro Leu Leu			
165	170		

<210> 3535

<211> 114

<212> PRT

<213> Homo. sapiens

<400> 3535

Met Gly Phe His His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser			
1	5	10	15
Asn Asp Pro Ala Ser Gln Ser Ala Gly Ile Ser Gly Met Ser His His			
20	25	30	
Ala Gln Pro Asn Arg Ile Phe Leu Thr Trp Gly Leu Trp Thr Leu Arg			
35	40	45	
Asn Ser Ile Gln Arg Tyr Leu Tyr Phe Phe Phe Gly Ile Tyr Ser Phe			
50	55	60	
Phe Phe Ser Leu Pro Pro Leu Ala Ala Gly Arg Val Leu Ala Leu Ile			
65	70	75	80

Glu Cys Val Thr Arg Pro Glu Ala Phe Pro Pro Pro Pro Pro Pro Leu
 85 90 95
 Phe Ile Ser Ser Pro Gln Lys Lys Val Lys Asn Leu Cys Tyr Arg Arg
 100 105 110
 Trp Trp

<210> 3536

<211> 340

<212> PRT

<213> Homo sapiens

<400> 3536

Met Phe Ser Val Ser Leu Gly Gln Thr Ile Leu Cys Ile Gly Arg Asp
 1 5 10 15
 Lys Ser Ser Cys Glu Ser Tyr Gly Tyr Asn Val Cys Asp Tyr Gln Cys
 20 25 30
 Trp Glu Asn Ser Val Gly Glu Glu Leu Tyr Lys Leu Ser Ile Phe Asn
 35 40 45
 Phe Leu Leu Thr Val Ala Phe Ala Phe Leu Val Thr Leu Pro Arg Arg
 50 55 60
 Leu Leu Val Asp Arg Phe Ser Gly Arg Phe Trp Ala Trp Leu Glu Arg
 65 70 75 80
 Glu Glu Phe Leu Val Pro Lys Asn Val Leu Asp Ile Val Ala Gly Gln
 85 90 95
 Thr Val Thr Trp Met Gly Leu Phe Tyr Cys Pro Leu Leu Pro Leu Leu
 100 105 110
 Asn Ser Val Phe Leu Phe Leu Thr Phe Tyr Ile Lys Lys Tyr Thr Leu

115	120	125
Leu Lys Asn Ser Arg Ala Ser Ser Arg Pro Phe Arg Ala Ser Ser Ser		
130	135	140
Thr Phe Phe Phe Gln Leu Val Leu Leu Leu Gly Leu Leu Leu Ala Ala		
145	150	155
Val Pro Leu Gly Tyr Val Val Ser Ser Ile His Ser Ser Trp Asp Cys		
165	170	175
Gly Leu Phe Thr Asn Tyr Ser Ala Pro Trp Gln Val Val Pro Glu Leu		
180	185	190
Val Ala Leu Gly Leu Pro Pro Ile Gly Gln Arg Ala Leu His Tyr Leu		
195	200	205
Gly Ser His Ala Phe Ser Phe Pro Leu Leu Ile Met Leu Ser Leu Val		
210	215	220
Leu Thr Val Cys Val Ser Gln Thr Gln Ala Asn Ala Arg Ala Ile His		
225	230	235
Arg Leu Arg Lys Gln Leu Val Trp Gln Val Gln Glu Lys Trp His Leu		
245	250	255
Val Glu Asp Leu Ser Arg Leu Leu Pro Glu Pro Gly Pro Ser Asp Ser		
260	265	270
Pro Gly Pro Lys Tyr Pro Ala Ser Gln Ala Ser Arg Pro Gln Ser Phe		
275	280	285
Cys Pro Gly Cys Pro Cys Pro Gly Ser Pro Gly His Gln Ala Pro Arg		
290	295	300
Pro Gly Pro Ser Val Val Asp Ala Ala Gly Leu Arg Ser Pro Cys Pro		
305	310	315
Gly Gln His Gly Ala Pro Ala Ser Ala Arg Arg Phe Arg Phe Pro Ser		
325	330	335
Gly Ala Glu Leu		
340		

<210> 3537

<211> 172

<212> PRT

<213> Homo sapiens

<400> 3537

Met Ile Gly Glu Leu Glu Glu Pro Ala Val Ser Ala Ile Glu Arg Pro

1 5 10 15

Ser Glu Leu Gly Leu Asp Ala Ala Ser Leu His Ser Ser Arg Glu Thr

20 25 30

Arg Asp Thr Gln Pro Gln Arg Thr Arg Pro Tyr Glu Met Glu Ala Glu

35 40 45

Thr Gly Glu Met Pro Pro Gln Ala Lys Asp Ala Trp Gly His Gln Glu

50 55 60

Leu Gly Glu Val Arg Asn Arg Phe Ser Arg Glu Pro Ala Glu Gly Thr

65 70 75 80

Ser Leu Pro Thr Pro Trp Cys Trp Ala Ser Gly Leu Arg Thr Gln Thr

85 90 95

Val Asn Leu Cys Cys Leu Lys Pro Pro Ser Leu Val Leu Gly Tyr Ser

100 105 110

Ser Pro Arg Thr Leu Ser Pro Gln Pro Pro Leu Gln Gln Ile Ser Val

115 120 125

Ser Pro Pro His Leu Phe Ala Glu Ala Pro Ser Thr Asn Lys Cys Arg

130 135 140

Gln Leu Phe Leu Glu Phe Cys Ile Lys Asp Lys Lys Leu Gly Ala Gln

145 150 155 160

Arg Gly Gly His Glu Val Lys Ala Leu Leu Leu Cys

165

170

<210> 3538

<211> 686

<212> PRT

<213> Homo sapiens

<400> 3538

Met Leu Val Glu Thr Ser Met Ile Gly Leu Met Leu Gly Thr Cys Ile

1

5

10

15

Ala Phe Tyr Val Val Ile Gly Asp Leu Gly Ser Asn Phe Phe Ala Arg

20

25

30

Leu Phe Gly Phe Gln Val Gly Gly Thr Phe Arg Met Phe Leu Leu Phe

35

40

45

Ala Val Ser Leu Cys Ile Val Leu Pro Leu Ser Leu Gln Arg Asn Met

50

55

60

Met Ala Ser Ile Gln Ser Phe Ser Ala Met Ala Leu Leu Phe Tyr Thr

65

70

75

80

Val Phe Met Phe Val Ile Val Leu Ser Ser Leu Lys His Gly Leu Phe

85

90

95

Ser Gly Gln Trp Leu Arg Arg Val Ser Tyr Val Arg Trp Glu Gly Val

100

105

110

Phe Arg Cys Ile Pro Ile Phe Gly Met Ser Phe Ala Cys Gln Ser Gln

115

120

125

Val Leu Pro Thr Tyr Asp Ser Leu Asp Glu Pro Ser Val Lys Thr Met

130

135

140

Ser Ser Ile Phe Ala Ser Ser Leu Asn Val Val Thr Thr Phe Tyr Val

145

150

155

160

Met Val Gly Phe Phe Gly Tyr Val Ser Phe Thr Glu Ala Thr Ala Gly
 165 170 175
 Asn Val Leu Met His Phe Pro Ser Asn Leu Val Thr Glu Met Leu Arg
 180 185 190
 Val Gly Phe Met Met Ser Val Ala Val Gly Phe Pro Met Met Ile Leu
 195 200 205
 Pro Cys Arg Gln Ala Leu Ser Thr Leu Leu Cys Glu Gln Gln Gln Lys
 210 215 220
 Asp Gly Thr Phe Ala Ala Gly Gly Tyr Met Pro Pro Leu Arg Phe Lys
 225 230 235 240
 Ala Leu Thr Leu Ser Val Val Phe Gly Thr Met Val Gly Gly Ile Leu
 245 250 255
 Ile Pro Asn Val Glu Thr Ile Leu Gly Leu Thr Gly Ala Thr Met Gly
 260 265 270
 Ser Leu Ile Cys Phe Ile Cys Pro Ala Leu Ile Tyr Lys Lys Ile His
 275 280 285
 Lys Asn Ala Leu Ser Ser Gln Val Val Leu Trp Val Gly Leu Gly Val
 290 295 300
 Leu Val Val Ser Thr Val Thr Thr Leu Ser Val Ser Glu Glu Val Pro
 305 310 315 320
 Glu Asp Leu Ala Glu Glu Ala Pro Gly Gly Arg Leu Gly Glu Ala Glu
 325 330 335
 Gly Leu Met Lys Val Glu Ala Ala Arg Leu Ser Ala Gln Asp Pro Val
 340 345 350
 Val Ala Val Ala Glu Asp Gly Arg Glu Lys Pro Lys Leu Pro Lys Glu
 355 360 365
 Arg Glu Glu Leu Glu Gln Ala Gln Ile Lys Gly Pro Val Asp Val Pro
 370 375 380
 Gly Arg Glu Asp Gly Lys Glu Ala Pro Glu Glu Ala Gln Leu Asp Arg

385 390 395 400
Pro Gly Gln Gly Ile Ala Val Pro Val Gly Glu Ala His Arg His Glu
 405 410 415
Pro Pro Val Pro His Asp Lys Val Val Val Asp Glu Gly Gln Asp Arg
 420 425 430
Glu Val Pro Glu Glu Asn Lys Pro Pro Ser Arg His Ala Gly Gly Lys
 435 440 445
Ala Pro Gly Val Gln Gly Gln Met Ala Pro Pro Leu Pro Asp Ser Glu
 450 455 460
Arg Glu Lys Gln Glu Pro Glu Gln Gly Glu Val Gly Lys Arg Pro Gly
465 470 475 480
Gln Ala Gln Ala Leu Glu Glu Ala Gly Asp Leu Pro Glu Asp Pro Gln
 485 490 495
Lys Val Pro Glu Ala Asp Gly Gln Pro Ala Val Gln Pro Ala Lys Glu
 500 505 510
Asp Leu Gly Pro Gly Asp Arg Gly Leu His Pro Arg Pro Gln Ala Val
 515 520 525
Leu Ser Glu Gln Gln Asn Gly Leu Ala Val Gly Gly Gly Glu Lys Ala
 530 535 540
Lys Gly Gly Pro Pro Pro Gly Asn Ala Ala Gly Asp Thr Gly Gln Pro
545 550 555 560
Ala Glu Asp Ser Asp His Gly Gly Lys Pro Pro Leu Pro Ala Glu Lys
 565 570 575
Pro Ala Pro Gly Pro Gly Leu Pro Pro Glu Pro Arg Glu Gln Arg Asp
 580 585 590
Val Glu Arg Ala Gly Gly Asn Gln Ala Ala Ser Gln Leu Glu Glu Ala
 595 600 605
Gly Arg Ala Glu Met Leu Asp His Ala Val Leu Leu Gln Val Ile Lys
 610 615 620

Glu Gln Gln Val Gln Gln Lys Arg Leu Leu Asp Gln Gln Glu Lys Leu
 625 630 635 640
 Leu Ala Val Ile Glu Glu Gln His Lys Glu Ile His Gln Gln Arg Gln
 645 650 655
 Glu Asp Glu Glu Asp Lys Pro Arg Gln Val Glu Val His Gln Glu Pro
 660 665 670
 Gly Ala Ala Val Pro Arg Gly Gln Glu Ala Pro Glu Gly Ser
 675 680 685

<210> 3539

<211> 116

<212> PRT

<213> Homo sapiens

<400> 3539

Met Asp Ala His Ser Ser Val Glu Leu Phe Ser Ala Gly Gln Val Ser
 1 5 10 15
 Ala Ser Ile Ile Ser Gln Arg Leu Thr Glu Ser Leu Ile His Gln Tyr
 20 25 30
 Arg Ile Pro His Asn Thr Ala Leu Asp Arg Gly Pro Thr Leu Glu Lys
 35 40 45
 Ser Lys Cys Arg Ser Gly Leu Met Thr Met Arg Leu Asp Gly His Ile
 50 55 60
 Pro Tyr Thr Pro Pro Arg Ser Cys Gln His Asn Arg Asp Leu Glu Arg
 65 70 75 80
 Leu Val Gly Ser Thr Ala Arg Thr Pro Ala Trp Ser Gln Leu His Glu
 85 90 95
 Asp Asp Ser Gly Arg Trp Ile His Ile Tyr Met Cys Arg Lys Asp Phe

100 105 110
Tyr Leu Ser Ala
115

<210> 3540

<211> 154

<212> PRT

<213> Homo sapiens

<400> 3540

Met Cys Thr Val Ala His Thr Cys Ile Glu His Met Cys Thr Tyr Met
1 5 10 15
Arg Leu His Pro Leu Ala His Pro His Thr Cys Ala Leu Ala Pro Ile
20 25 30
Cys Thr His Val His Thr Leu Ala His Met Cys Ile Cys Arg Asn Ala
35 40 45
Pro Leu His Leu Cys Asp Thr Pro Ala His Leu His Thr Pro Ile Cys
50 55 60
Ile Gln Ala Gln Thr His Ser His Thr Phe Ala His Thr Ala Thr Asn
65 70 75 80
Leu His Lys Gln His Leu Tyr Thr Asp Thr Tyr Pro Phe Val Pro Ile
85 90 95
Gln Cys Thr Leu Thr His Leu His Thr Ala Val Leu Ala His Thr Phe
100 105 110
Ala His Thr His Leu His Thr Cys Thr His Thr Thr His Leu Ser Val
115 120 125
Gln His Thr Tyr Leu Cys Ala Tyr Met His Ile Cys Thr Cys Thr Gln
130 135 140

Gln Trp His Thr Leu Leu Tyr His Ser Pro

145

150

<210> 3541

<211> 196

<212> PRT

<213> Homo sapiens

<400> 3541

Met Ala Leu Ile Ala Gly Ala Glu Pro Cys Pro Gly Pro His Gly Gln

1

5

10

15

Ser Ala Cys Arg Pro Pro Cys Ser Ser Arg Gly Arg Thr Ser Thr Ser

20

25

30

Gly Ala Thr Gln Leu Gly Gly Cys Leu Pro Ser Phe Thr Gly Gly Asp

35

40

45

His Arg Ile Ser Ala Pro Pro Ala Ala Trp Leu Ser Arg Arg Gly Cys

50

55

60

His His Pro Leu Ala Pro Gly Gln Pro Arg Arg Thr Gly Lys Gly Leu

65

70

75

80

Arg Pro Leu Pro Thr Gln Ser Gln Ser Glu Leu Leu Leu Arg Ala Gly

85

90

95

Gln Gln Ala Leu Cys Pro Gly Arg Ala Cys Gly Leu Gly Val Pro Gln

100

105

110

Ser Pro Gly Ala Ser Pro Ser Glu Ile Pro Thr Gln Leu Cys Gln Ser

115

120

125

Pro Lys His Phe Met His Ile Glu Thr Glu Pro Gly Pro His Gln Gly

130

135

140

Leu Leu Gly Ser Asp Ser Trp Gln Trp Pro Gly Val Cys Thr Tyr Thr

145 150 155 160
 Tyr Ala Asp Thr Cys Gln Gly Pro Pro Ser Pro Ser Thr Gly Pro Arg
 165 170 175
 Cys Cys Pro Gly Leu Asp Leu Ser Gly Arg Thr Gly Ser Gly Gly Ser
 180 185 190
 Gly Ala Leu Arg
 195

<210> 3542

<211> 531

<212> PRT

<213> Homo sapiens

<400> 3542

Met Gly Leu Pro Arg Leu Val Cys Ala Phe Leu Leu Ala Ala Cys Cys
 1 5 10 15
 Cys Cys Pro Arg Val Ala Gly Val Pro Gly Glu Ala Glu Gln Pro Ala
 20 25 30
 Pro Glu Leu Val Glu Val Glu Val Gly Ser Thr Ala Leu Leu Lys Cys
 35 40 45
 Gly Leu Ser Gln Ser Gln Gly Asn Leu Ser His Val Asp Trp Phe Ser
 50 55 60
 Glu Glu Arg Thr Leu Ile Phe Arg Val Arg Gln Gly Gln Gly Gln Ser
 65 70 75 80
 Glu Pro Gly Glu Tyr Glu Gln Arg Leu Ser Leu Gln Asp Arg Gly Ala
 85 90 95
 Thr Leu Ala Leu Thr Gln Val Thr Pro Gln Asp Glu Arg Ile Phe Leu
 100 105 110

Cys Gln Gly Lys Arg Pro Arg Ser Gln Glu Tyr Arg Ile Gln Leu Arg
 115 120 125
 Val Tyr Lys Ala Pro Glu Glu Pro Asn Ile Gln Val Asn Pro Leu Gly
 130 135 140
 Ile Pro Val Asn Ser Lys Glu Pro Glu Glu Val Ala Thr Cys Val Gly
 145 150 155 160
 Arg Asn Gly Tyr Pro Ile Pro Gln Val Ile Trp Tyr Lys Asn Gly Arg
 165 170 175
 Pro Leu Lys Glu Glu Lys Asn Arg Val His Ile Gln Ser Ser Gln Thr
 180 185 190
 Val Glu Ser Ser Gly Leu Tyr Thr Leu Gln Ser Ile Leu Lys Ala Gln
 195 200 205
 Leu Val Lys Glu Asp Lys Asp Ala Gln Phe Tyr Cys Glu Leu Asn Tyr
 210 215 220
 Arg Leu Pro Ser Gly Asn His Met Lys Glu Ser Arg Glu Val Thr Val
 225 230 235 240
 Pro Val Phe Tyr Pro Thr Glu Lys Val Trp Leu Glu Val Glu Pro Val
 245 250 255
 Gly Met Leu Lys Glu Gly Asp Arg Val Glu Ile Arg Cys Leu Ala Asp
 260 265 270
 Gly Asn Pro Pro Pro His Phe Ser Ile Ser Lys Gln Asn Pro Ser Thr
 275 280 285
 Arg Glu Ala Glu Glu Glu Thr Thr Asn Asp Asn Gly Val Leu Val Leu
 290 295 300
 Glu Pro Ala Arg Lys Glu His Ser Gly Arg Tyr Glu Cys Gln Gly Leu
 305 310 315 320
 Asp Leu Asp Thr Met Ile Ser Leu Leu Ser Glu Pro Gln Glu Leu Leu
 325 330 335
 Val Asn Tyr Val Ser Asp Val Arg Val Ser Pro Ala Ala Pro Glu Arg

340 345 350
Gln Glu Gly Ser Ser Leu Thr Leu Thr Cys Glu Ala Glu Ser Ser Gln
355 360 365
Asp Leu Glu Phe Gln Trp Leu Arg Glu Glu Thr Gly Gln Val Leu Glu
370 375 380
Arg Gly Pro Val Leu Gln Leu His Asp Leu Lys Arg Glu Ala Gly Gly
385 390 395 400
Gly Tyr Arg Cys Val Ala Ser Val Pro Ser Ile Pro Gly Leu Asn Arg
405 410 415
Thr Gln Leu Val Asn Val Ala Ile Phe Gly Pro Pro Trp Met Ala Phe
420 425 430
Lys Glu Arg Lys Val Trp Val Lys Glu Asn Met Val Leu Asn Leu Ser
435 440 445
Cys Glu Ala Ser Gly His Pro Arg Pro Thr Ile Ser Trp Asn Val Asn
450 455 460
Gly Thr Ala Ser Glu Gln Asp Gln Asp Pro Gln Arg Val Leu Ser Thr
465 470 475 480
Leu Asn Val Leu Val Thr Pro Glu Leu Leu Glu Thr Gly Val Glu Cys
485 490 495
Thr Ala Ser Asn Asp Leu Gly Lys Asn Thr Ser Ile Leu Phe Leu Glu
500 505 510
Leu Gly Glu Gly Cys Ile Pro Ala Gly Asp Gly Arg Gly Arg Pro Arg
515 520 525
His Gly Gln
530

<210> 3543

<211> 147

<212> PRT

<213> Homo sapiens

<400> 3543

Met Arg Leu Arg Gly Leu Ser Glu Gly Ile Ile Leu Ser Ala Leu Leu
1 5 10 15

Phe Val Val Phe Val Leu Leu Gly Leu Phe Pro Ile Leu Glu Val Leu
20 25 30

Asp Val Ser Leu Ser Phe Leu Thr Val Trp Gly Ser Thr Ser Leu Thr
35 40 45

Arg Asp Phe Leu His Pro Phe Pro Gly Asp Leu Thr Pro Leu Pro Thr
50 55 60

Gly Gly Phe Leu His Ser Phe Thr Leu Leu His Thr Arg Phe Ala Leu
65 70 75 80

Asn Cys Ala Ser His Ser His Thr Phe Asn Leu Gln Asp Val Pro Thr
85 90 95

Thr Lys Glu Val Leu His Cys Pro Cys Gly Phe Ser Tyr Leu Gly Leu
100 105 110

Cys Thr Glu Leu Leu Gly His His Gly Ile Cys Arg Pro Phe Pro Ser
115 120 125

Met Leu Leu Arg Val Ser Val Tyr Ser Ser Cys Trp Trp Val Ser Ile
130 135 140

Pro His Ser

145

<210> 3544

<211> 334

<212> PRT

<213> Homo sapiens

<400> 3544

Met Leu Ala Leu Ala Lys Ile Leu Leu Ile Ser Thr Leu Phe Tyr Ser
1 5 10 15
Leu Leu Ser Gly Ser His Gly Lys Glu Asn Gln Asp Ile Asn Thr Thr
20 25 30
Gln Asn Ile Ala Glu Val Phe Lys Thr Met Glu Asn Lys Pro Ile Ser
35 40 45
Leu Glu Ser Glu Ala Asn Leu Asn Ser Asp Lys Glu Asn Ile Thr Thr
50 55 60
Ser Asn Leu Lys Ala Ser His Ser Pro Pro Leu Asn Leu Pro Asn Asn
65 70 75 80
Ser His Gly Ile Thr Asp Phe Ser Ser Asn Ser Ser Ala Glu His Ser
85 90 95
Leu Gly Ser Leu Lys Pro Thr Ser Thr Ile Ser Thr Ser Pro Pro Leu
100 105 110
Ile His Ser Phe Val Ser Lys Val Pro Trp Asn Ala Pro Ile Ala Asp
115 120 125
Glu Asp Leu Leu Pro Ile Ser Ala His Pro Asn Ala Thr Pro Ala Leu
130 135 140
Ser Ser Glu Asn Phe Thr Trp Ser Leu Val Asn Asp Thr Val Lys Thr
145 150 155 160
Pro Asp Asn Ser Ser Ile Thr Val Ser Ile Leu Ser Ser Glu Pro Thr
165 170 175
Ser Pro Ser Val Thr Pro Leu Ile Val Glu Pro Ser Gly Trp Leu Thr
180 185 190
Thr Asn Ser Asp Ser Phe Thr Gly Phe Thr Pro Tyr Gln Glu Lys Thr
195 200 205

Thr Leu Gln Pro Thr Leu Lys Phe Thr Asn Asn Ser Lys Leu Phe Pro
 210 215 220
 Asn Thr Ser Asp Pro Gln Lys Glu Asn Arg Asn Thr Gly Ile Val Phe
 225 230 235 240
 Gly Ala Ile Leu Gly Ala Ile Leu Gly Val Ser Leu Leu Thr Leu Val
 245 250 255
 Gly Tyr Leu Leu Cys Gly Lys Arg Lys Thr Asp Ser Phe Ser His Arg
 260 265 270
 Arg Leu Tyr Asp Asp Arg Asn Glu Pro Val Leu Arg Leu Asp Asn Ala
 275 280 285
 Pro Glu Pro Tyr Asp Val Ser Phe Gly Asn Ser Ser Tyr Tyr Asn Pro
 290 295 300
 Thr Leu Asn Asp Ser Ala Met Pro Glu Ser Glu Glu Asn Ala Arg Asp
 305 310 315 320
 Gly Ile Pro Met Asp Asp Ile Pro Pro Leu Arg Thr Ser Val
 325 330

<210> 3545

<211> 909

<212> PRT

<213> Homo sapiens

<400> 3545

Met Leu Ala Leu Gly Glu Thr Ser Met Phe Leu Val Arg Arg Asp Ser
 1 5 10 15
 Ser Ser Lys Gln Leu Val Leu Cys Val His Phe Pro Ser Leu Asn Glu
 20 25 30
 Ser Ser Ala Glu Val Leu Glu Tyr Thr Ile Lys Glu Glu Lys Ser Ile

35	40	45
Leu Tyr Leu Glu Gly Ser Ala Leu Val Phe Glu Asp Ile Phe Arg Leu		
50	55	60
Ile Ala Phe Tyr Cys Val Ser Arg Asp Leu Leu Pro Phe Thr Leu Arg		
65	70	75
80		
Leu Pro Gln Ala Ile Leu Glu Ala Ser Ser Phe Thr Asp Leu Glu Thr		
85	90	95
Ile Ala Asn Leu Gly Leu Gly Phe Trp Asp Ser Ser Leu Asn Pro Pro		
100	105	110
Gln Glu Arg Gly Lys Pro Ala Glu Pro Pro Arg Asp Arg Ala Pro Gly		
115	120	125
Phe Pro Leu Val Ser Ser Leu Arg Pro Thr Ala Arg Asp Ala Asn Cys		
130	135	140
Ala Cys Glu Ile Glu Leu Ser Val Gly Asn Asp Arg Leu Trp Phe Val		
145	150	155
160		
Asn Pro Ile Phe Ile Glu Asp Cys Ser Ser Ala Leu Pro Thr Asp Gln		
165	170	175
Pro Pro Leu Gly Asn Cys Pro Ala Arg Pro Leu Pro Pro Thr Ser Asp		
180	185	190
Ala Thr Ser Pro Thr Ser Arg Trp Ala Pro Arg Arg Pro Pro Pro Pro		
195	200	205
Pro Pro Val Leu Pro Leu Gln Pro Cys Ser Pro Ala Gln Pro Pro Val		
210	215	220
Leu Pro Ala Leu Ala Pro Ala Pro Ala Cys Pro Leu Pro Thr Ser Pro		
225	230	235
240		
Pro Val Pro Ala Pro His Val Thr Pro His Ala Pro Gly Pro Pro Asp		
245	250	255
His Pro Asn Gln Pro Pro Met Met Thr Cys Glu Arg Leu Pro Cys Pro		
260	265	270

Thr Ala Gly Leu Gly Pro Leu Arg Glu Glu Ala Met Lys Pro Gly Ala
 275 280 285
 Ala Ser Ser Pro Leu Gln Gln Val Pro Ala Pro Pro Leu Pro Ala Lys
 290 295 300
 Lys Asn Leu Pro Thr Ala Pro Pro Arg Arg Arg Val Ser Glu Arg Val
 305 310 315 320
 Ser Leu Glu Asp Gln Ser Pro Gly Met Ala Ala Glu Gly Asp Gln Leu
 325 330 335
 Ser Leu Pro Pro Gln Gly Thr Ser Asp Gly Pro Glu Asp Thr Pro Arg
 340 345 350
 Glu Ser Thr Glu Gln Gly Gln Asp Thr Glu Val Lys Ala Ser Asp Pro
 355 360 365
 His Ser Met Pro Glu Leu Pro Arg Thr Ala Lys Gln Pro Pro Val Pro
 370 375 380
 Pro Pro Arg Lys Lys Arg Ile Ser Arg Gln Leu Ala Ser Thr Leu Pro
 385 390 395 400
 Ala Pro Leu Glu Asn Ala Glu Leu Cys Ser Gln Ala Met Ala Leu Glu
 405 410 415
 Thr Pro Thr Pro Gly Pro Pro Arg Glu Gly Gln Ser Pro Ala Ser Gln
 420 425 430
 Ala Gly Thr Gln His Pro Pro Ala Gln Ala Thr Ala His Ser Gln Ser
 435 440 445
 Ser Pro Glu Phe Lys Gly Ser Leu Ala Ser Leu Ser Asp Ser Leu Gly
 450 455 460
 Val Ser Val Met Ala Thr Asp Gln Asp Ser Tyr Ser Thr Ser Ser Thr
 465 470 475 480
 Glu Glu Glu Leu Glu Gln Phe Ser Ser Pro Ser Val Lys Lys Lys Pro
 485 490 495
 Ser Met Ile Leu Gly Lys Ala Arg His Arg Leu Ser Phe Ala Ser Phe

500	505	510	
Ser Ser Met Phe His Ala Phe Leu Ser Asn Asn Arg Lys Leu Tyr Lys			
515	520	525	
Lys Val Val Glu Leu Ala Gln Asp Lys Gly Ser Tyr Phe Gly Ser Leu			
530	535	540	
Val Gln Asp Tyr Lys Val Tyr Ser Leu Glu Met Met Ala Arg Gln Thr			
545	550	555	560
Ser Ser Thr Glu Met Leu Gln Glu Ile Arg Thr Met Met Thr Gln Leu			
565	570	575	
Lys Ser Tyr Leu Leu Gln Ser Thr Glu Leu Lys Ala Leu Val Asp Pro			
580	585	590	
Ala Leu His Ser Glu Glu Glu Leu Glu Ala Ile Val Glu Ser Ala Leu			
595	600	605	
Tyr Lys Cys Val Leu Lys Pro Leu Lys Glu Ala Ile Asn Ser Cys Leu			
610	615	620	
His Gln Ile His Ser Lys Asp Gly Ser Leu Gln Gln Leu Lys Glu Asn			
625	630	635	640
Gln Leu Val Ile Leu Ala Thr Thr Thr Thr Asp Leu Gly Val Thr Thr			
645	650	655	
Ser Val Pro Glu Val Pro Met Met Glu Lys Ile Leu Gln Lys Phe Thr			
660	665	670	
Ser Met His Lys Ala Tyr Ser Pro Glu Lys Lys Ile Ser Ile Leu Leu			
675	680	685	
Lys Thr Cys Lys Leu Ile Tyr Asp Ser Met Ala Leu Gly Asn Pro Gly			
690	695	700	
Lys Pro Tyr Gly Ala Asp Asp Phe Leu Pro Val Leu Met Tyr Val Leu			
705	710	715	720
Ala Arg Ser Asn Leu Thr Glu Met Leu Leu Asn Val Glu Tyr Met Met			
725	730	735	

Glu Leu Met Asp Pro Ala Leu Gln Leu Gly Glu Gly Ser Tyr Tyr Leu

740

745

750

Thr Thr Thr Tyr Gly Ala Leu Glu His Ile Lys Ser Tyr Asp Lys Ile

755

760

765

Thr Val Thr Arg Gln Leu Ser Val Glu Val Gln Asp Ser Ile His Arg

770

775

780

Trp Glu Arg Arg Arg Thr Leu Asn Lys Ala Arg Ala Ser Arg Ser Ser

785

790

795

800

Val Gln Asp Phe Ile Cys Val Ser Tyr Leu Glu Pro Glu Gln Gln Ala

805

810

815

Arg Thr Leu Ala Ser Arg Ala Asp Thr Gln Ala Gln Ala Leu Cys Ala

820

825

830

Gln Cys Ala Glu Lys Phe Ala Val Glu Arg Pro Gln Ala His Arg Leu

835

840

845

Phe Val Leu Val Asp Gly Arg Cys Phe Gln Leu Ala Asp Asp Ala Leu

850

855

860

Pro His Cys Ile Lys Gly Tyr Leu Leu Arg Ser Glu Pro Lys Arg Asp

865

870

875

880

Phe His Phe Val Tyr Arg Pro Leu Asp Gly Gly Gly Gly Gly Gly Gly

885

890

895

Ser Pro Pro Cys Leu Val Val Arg Glu Pro Asn Phe Leu

900

905

<210> 3546

<211> 276

<212> PRT

<213> Homo sapiens

<400> 3546

Met Leu Arg Asp Ser Glu Ala Glu Val Thr Glu Glu Asp Pro Arg Leu
 1 5 10 15
 Arg Ala Gln Gln Leu His His Arg Val Leu Thr Leu Gln Cys Gln Leu
 20 25 30
 Arg Asp Gln Gly Ala Ala His Gln Ala Ser Leu Asp Glu Ala Thr Arg
 35 40 45
 Leu Gln Glu Glu Leu Gln Ala Lys Leu Glu Glu Leu Gln Lys Lys Gln
 50 55 60
 His Glu Ala Lys Leu Ala Val Thr Pro Leu Lys Ala Lys Ile Ala Ser
 65 70 75 80
 Leu Val Arg Lys Cys Arg Glu Arg Asn Arg Leu Ile Thr His Leu Leu
 85 90 95
 Gln Glu Leu His Arg His Gly Leu Gly Asn Leu Leu Leu Ser Glu Leu
 100 105 110
 Ala Gln Asn Met Leu Asn Asp Val Ala Leu Ala Glu Tyr Thr Ala Thr
 115 120 125
 Phe Leu Ala Pro Gly Val Pro Glu Thr Ser His His Leu Asp Val Lys
 130 135 140
 Ser Glu Met Thr Ala Ala Leu Arg Ala Gln Thr Tyr Leu Leu Asn Pro
 145 150 155 160
 Glu Met Asp Ser Val Leu Gln Ser Ser Leu Ser Ser Glu Ser Trp Pro
 165 170 175
 Ile Pro Glu Pro Glu Trp Pro Ala Gln Thr Ala Gln Leu Asp Ser Leu
 180 185 190
 Lys Leu Pro Leu Ser Leu Val Ser Thr Leu Asp Pro Gly Thr Cys Leu
 195 200 205
 Ala Ala Val Thr Val Glu Pro Gly Leu Pro Ala Gln Arg Leu Gln Glu
 210 215 220

100	105	110
Val Gly Glu Cys Thr Asn His His Gln His Gln Lys His His Ser Ala		
115	120	125
Lys Lys Ser Leu Lys Arg Asp Met Asp Arg Ala Ser Tyr Val Lys Cys		
130	135	140
Cys Leu Phe Cys Met Ser Leu Lys Pro Phe Arg Lys Trp Glu Val Gly		
145	150	155
Lys Asp Leu Pro Ala Met Leu Arg Leu Leu Arg Ser Leu Val Phe Pro		
165	170	175
Gly Gly Lys Lys Pro Gly Thr Ile Thr Glu Cys Gly Glu Asp Ile Arg		
180	185	190
Ser Gln Lys Ser His Tyr Lys Ser Gly Glu Cys Gly Lys Ala Ser Arg		
195	200	205
His Gln His Thr Pro Val Tyr His Pro Arg Val Tyr Thr Gly Lys Lys		
210	215	220
Leu Tyr Glu Cys Ser Lys Cys Gly Lys Ala Phe Arg Gly Lys Tyr Ser		
225	230	235
Leu Val Gln His Gln Arg Val His Thr Gly Glu Arg Pro Trp Glu Cys		
245	250	255
Asn Glu Cys Gly Lys Phe Phe Ser Gln Thr Ser His Leu Asn Asp His		
260	265	270
Arg Arg Ile His Thr Gly Glu Arg Pro Tyr Glu Cys Ser Glu Cys Gly		
275	280	285
Lys Leu Phe Arg Gln Asn Ser Ser Leu Val Asp His Gln Lys Ile His		
290	295	300
Thr Gly Ala Arg Pro Tyr Glu Cys Ser Gln Cys Gly Lys Ser Phe Ser		
305	310	315
Gln Lys Ala Thr Leu Val Lys His Gln Arg Val His Thr Gly Glu Arg		
325	330	335

Pro Tyr Lys Cys Gly Glu Cys Gly Asn Ser Phe Ser Gln Ser Ala Ile
340 345 350

Leu Asn Gln His Arg Arg Ile His Thr Gly Ala Lys Pro Tyr Glu Cys
355 360 365

Gly Gln Cys Gly Lys Ser Leu Ser Gln Lys Ala Thr Leu Ile Lys His
370 375 380

Gln Arg Val His Thr Gly Glu Arg Pro Tyr Lys Cys Gly Asp Cys Gly
385 390 395 400

Lys Ser Phe Ser Gln Ser Ser Ile Leu Ile Gln His Arg Arg Ile His
405 410 415

Thr Gly Ala Arg Pro Tyr Glu Cys Gly Gln Cys Gly Lys Ser Phe Ser
420 425 430

Gln Lys Ser Gly Leu Ile Gln His Gln Val Val His Thr Gly Glu Arg
435 440 445

Pro Tyr Glu Cys Asn Lys Cys Gly Asn Ser Phe Ser Gln Cys Ser Ser
450 455 460

Leu Ile His His Gln Lys Cys His Asn Thr
465 470

<210> 3548

<211> 372

<212> PRT

<213> Homo sapiens

<400> 3548

Met Arg Ala Ile Leu Lys Met Gly Gln Leu Cys Gly Asp His Pro Leu
1 5 10 15

Gly Ala Val Thr Phe Arg Cys Val Ala Leu Val Ala Val Trp Leu Cys

20	25	30
Gly Thr Ala Thr Arg Ser His Val	Gly Lys Asp Ser Cys Gly Leu Gly	
35	40	45
Thr Glu Leu Ser Leu Leu Gly Val	Ser Arg Cys Trp Gly Glu Gly Arg	
50	55	60
Gln Ser Ser Gln Ser Pro Ser Thr	Ala His Pro Ala Ala Arg Pro Trp	
65	70	75
Pro Val Asn Pro Pro Ser Pro Phe	Leu Pro Gln Glu Ala Val Glu Lys	
85	90	95
Val Thr Gln His Ile His Gly Leu	Ser Gly Lys Lys Asp Gly Leu Val	
100	105	110
Pro Met Phe Ile Asn Thr His Ser	Gly Leu Phe Thr His Leu Gly Val	
115	120	125
Phe Thr Leu Gly Ala Arg Ala Asp	Ser Tyr Tyr Glu Tyr Leu Leu Lys	
130	135	140
Gln Trp Ile Gln Gly Gly Lys Gln	Glu Thr Gln Leu Leu Glu Asp Tyr	
145	150	155
Val Glu Ala Ile Glu Gly Val Arg	Thr His Leu Leu Arg His Ser Glu	
165	170	175
Pro Ser Lys Leu Thr Phe Val Gly	Glu Leu Ala His Gly Arg Phe Ser	
180	185	190
Ala Lys Met Asp His Leu Val Cys	Phe Leu Pro Gly Thr Leu Ala Leu	
195	200	205
Gly Val Tyr His Gly Leu Pro Ala	Ser His Met Glu Leu Ala Gln Glu	
210	215	220
Leu Met Glu Thr Cys Tyr Gln Met	Asn Arg Gln Met Glu Thr Gly Leu	
225	230	235
Ser Pro Glu Ile Val His Phe Asn	Leu Tyr Pro Gln Pro Gly Arg Arg	
245	250	255

Asp Val Glu Val Lys Pro Ala Asp Arg His Asn Leu Leu Arg Pro Glu
 260 265 270
 Thr Val Glu Ser Leu Phe Tyr Leu Tyr Arg Val Thr Gly Asp Arg Lys
 275 280 285
 Tyr Gln Asp Trp Gly Trp Glu Ile Leu Gln Ser Phe Ser Arg Phe Thr
 290 295 300
 Arg Val Pro Ser Gly Gly Tyr Ser Ser Ile Asn Asn Val Gln Asp Pro
 305 310 315 320
 Gln Lys Pro Glu Pro Arg Asp Lys Met Glu Ser Phe Phe Leu Gly Glu
 325 330 335
 Thr Leu Lys Tyr Leu Phe Leu Leu Phe Ser Asp Asp Pro Asn Leu Leu
 340 345 350
 Ser Leu Asp Ala Tyr Val Phe Asn Thr Glu Ala His Pro Leu Pro Ile
 355 360 365
 Trp Thr Pro Ala
 370

<210> 3549

<211> 108

<212> PRT

<213> Homo sapiens

<400> 3549

Met Ala Gly Thr Gly Leu Gly Gly Pro Trp Pro Ile Trp Gly Pro Trp
 1 5 10 15
 Trp Ala Ser Arg Lys Gly Arg Cys Trp Ser Gly Ser Arg Val Ala Arg
 20 25 30
 Gln Gln Val Gly Val Thr Pro Val His Ala Ala Gly Val Pro Gly Leu

35 40 45
 Met Gln Ala Val Pro Glu Gly Asp Arg Ser Ser Arg Val Gly Trp Pro
 50 55 60
 Ala Ser Pro Ala Pro Pro Gln Ala Gly Ala Ser Glu Thr Glu Gly Ala
 65 70 75 80
 Pro Ala Pro Pro His Leu Pro Ser Arg Ala Trp Pro Gly Pro Pro Ser
 85 90 95
 Ser Thr Pro Gly Ser Val Arg Ser Gly Ala Gly Ala
 100 105

<210> 3550

<211> 405

<212> PRT

<213> Homo sapiens

<400> 3550

Met Arg Ser Ala Glu Leu Gln Glu Ala Leu Gly Ser Gly Asn Leu Leu
 1 5 10 15
 Asn Tyr Cys Gln Asn Lys Ser Gln Gln Ala Leu Leu Gln Ser Glu Lys
 20 25 30
 Met Leu Trp Gln Phe Leu Lys Val Thr Leu Glu Gln Asp Ser Arg Met
 35 40 45
 Lys Phe Leu Lys Leu Leu Gly Tyr Ser Lys Asp Glu Leu Gln Lys Lys
 50 55 60
 Val Ala Thr Trp Leu Lys Ser Asp Val Gly Leu Gly Glu Ser Pro Gln
 65 70 75 80
 Pro Lys Gly Asn Asp Leu Asn Ser Asp Arg Gln Gln Ala Phe Cys Ser
 85 90 95

Gln Ala Ser Lys His Thr Thr Lys Glu Ala Ser Ala Ser Ser Ala Phe
 100 105 110
 Phe Asp Glu Leu Val Pro Gln Asn Met Thr Pro Trp Glu Ile Pro Ile
 115 120 125
 Thr Lys Asp Ile Asp Gly Leu Leu Ser Gln Ala Leu Leu Leu Gly Glu
 130 135 140
 Leu Gly Pro Ala Val Glu Leu Cys Leu Lys Glu Glu Arg Phe Ala Asp
 145 150 155 160
 Ala Ile Ile Leu Ala Gln Ala Gly Gly Thr Asp Leu Leu Lys Gln Thr
 165 170 175
 Gln Glu Arg Tyr Leu Ala Lys Lys Lys Thr Lys Ile Ser Ser Leu Leu
 180 185 190
 Ala Cys Val Val Gln Lys Asn Trp Lys Asp Val Val Cys Thr Cys Ser
 195 200 205
 Leu Lys Asn Trp Arg Glu Ala Leu Ala Leu Leu Leu Thr Tyr Ser Gly
 210 215 220
 Thr Glu Lys Phe Pro Glu Leu Cys Asp Met Leu Gly Thr Arg Met Glu
 225 230 235 240
 Gln Glu Gly Ser Arg Ala Leu Thr Ser Glu Ala Arg Leu Cys Tyr Val
 245 250 255
 Cys Ser Gly Ser Val Glu Arg Leu Val Glu Cys Trp Ala Lys Cys His
 260 265 270
 Gln Ala Leu Ser Pro Met Ala Leu Gln Asp Leu Met Glu Lys Val Met
 275 280 285
 Val Leu Asn Arg Ser Leu Glu Gln Leu Arg Gly Pro His Gly Val Ser
 290 295 300
 Pro Gly Pro Ala Thr Thr Tyr Arg Val Thr Gln Tyr Ala Asn Leu Leu
 305 310 315 320
 Ala Ala Gln Gly Ser Leu Ala Thr Ala Met Ser Phe Leu Pro Arg Asp

325 330 335
 Cys Ala Gln Pro Pro Val Gln Gln Leu Arg Asp Arg Leu Phe His Ala
 340 345 350
 Gln Gly Ser Ala Val Leu Gly Gln Gln Ser Pro Pro Phe Pro Phe Pro
 355 360 365
 Arg Ile Val Val Gly Ala Thr Leu His Ser Lys Glu Thr Ser Ser Tyr
 370 375 380
 Arg Leu Gly Ser Gln Pro Ser His Gln Val Arg Pro Arg Leu Phe Ile
 385 390 395 400
 His Leu Phe Ile Gln
 405

<210> 3551

<211> 761

<212> PRT

<213> Homo sapiens

<400> 3551

Met Leu Gly Leu Arg Pro Pro Leu Leu Ala Leu Val Gly Leu Leu Ser
 1 5 10 15
 Leu Gly Cys Val Leu Ser Gln Glu Cys Thr Lys Phe Lys Val Ser Ser
 20 25 30
 Cys Arg Glu Cys Ile Glu Ser Gly Pro Gly Cys Thr Trp Cys Gln Lys
 35 40 45
 Leu Asn Ser Ile Arg Cys Asp Thr Arg Pro Gln Leu Leu Met Arg Gly
 50 55 60
 Cys Ala Ala Asp Asp Ile Met Asp Pro Thr Ser Leu Ala Glu Thr Gln
 65 70 75 80

Glu Asp His Asn Gly Gly Gln Lys Gln Leu Ser Pro Gln Lys Val Thr
 85 90 95
 Leu Tyr Leu Arg Pro Gly Gln Ala Ala Ala Phe Asn Val Thr Phe Arg
 100 105 110
 Arg Ala Lys Gly Tyr Pro Ile Asp Leu Tyr Tyr Leu Met Asp Leu Ser
 115 120 125
 Tyr Ser Met Leu Asp Asp Leu Arg Asn Val Lys Lys Leu Gly Gly Asp
 130 135 140
 Leu Leu Arg Ala Leu Asn Glu Ile Thr Glu Ser Gly Arg Ile Gly Phe
 145 150 155 160
 Gly Ser Phe Val Asp Lys Thr Val Leu Pro Phe Val Asn Thr His Pro
 165 170 175
 Asp Lys Leu Arg Asn Pro Cys Pro Asn Lys Glu Lys Glu Cys Gln Pro
 180 185 190
 Pro Phe Ala Phe Arg His Val Leu Lys Leu Thr Asn Asn Ser Asn Gln
 195 200 205
 Phe Gln Thr Glu Val Gly Lys Gln Leu Ile Ser Gly Asn Leu Asp Ala
 210 215 220
 Pro Glu Gly Gly Leu Asp Ala Met Met Gln Val Ala Ala Cys Pro Glu
 225 230 235 240
 Glu Ile Gly Trp Arg Asn Val Thr Arg Leu Leu Val Phe Ala Thr Asp
 245 250 255
 Asp Gly Phe His Phe Ala Gly Asp Gly Lys Leu Gly Ala Ile Leu Thr
 260 265 270
 Pro Asn Asp Gly Arg Cys His Leu Glu Asp Asn Leu Tyr Lys Arg Ser
 275 280 285
 Asn Glu Phe Asp Tyr Pro Ser Val Gly Gln Leu Ala His Lys Leu Ala
 290 295 300
 Glu Asn Asn Ile Gln Pro Ile Phe Ala Val Thr Ser Arg Met Val Lys

305 310 315 320
Thr Tyr Glu Lys Leu Thr Glu Ile Ile Pro Lys Ser Ala Val Gly Glu
 325 330 335
Leu Ser Glu Asp Ser Ser Asn Val Val His Leu Ile Lys Asn Ala Tyr
 340 345 350
Asn Lys Leu Ser Ser Arg Val Phe Leu Asp His Asn Ala Leu Pro Asp
 355 360 365
Thr Leu Lys Val Thr Tyr Asp Ser Phe Cys Ser Asn Gly Val Thr His
 370 375 380
Arg Asn Gln Pro Arg Gly Asp Cys Asp Gly Val Gln Ile Asn Val Pro
385 390 395 400
Ile Thr Phe Gln Val Lys Val Thr Ala Thr Glu Cys Ile Gln Glu Gln
 405 410 415
Ser Phe Val Ile Arg Ala Leu Gly Phe Thr Asp Ile Val Thr Val Gln
 420 425 430
Val Leu Pro Gln Cys Glu Cys Arg Cys Arg Asp Gln Ser Arg Asp Arg
 435 440 445
Ser Leu Cys His Gly Lys Gly Phe Leu Glu Cys Gly Ile Cys Arg Cys
 450 455 460
Asp Thr Gly Tyr Ile Gly Lys Asn Cys Glu Cys Gln Thr Gln Gly Arg
465 470 475 480
Ser Ser Gln Glu Leu Glu Gly Ser Cys Arg Lys Asp Asn Asn Ser Ile
 485 490 495
Ile Cys Ser Gly Leu Gly Asp Cys Val Cys Gly Gln Cys Leu Cys His
 500 505 510
Thr Ser Asp Val Pro Gly Lys Leu Ile Tyr Gly Gln Tyr Cys Glu Cys
 515 520 525
Asp Thr Ile Asn Cys Glu Arg Tyr Asn Gly Gln Val Cys Gly Gly Pro
 530 535 540

Gly Arg Gly Leu Cys Phe Cys Gly Lys Cys Arg Cys His Pro Gly Phe
 545 550 555 560
 Glu Gly Ser Ala Cys Gln Cys Glu Arg Thr Thr Glu Gly Cys Leu Asn
 565 570 575
 Pro Arg Arg Val Glu Cys Ser Gly Arg Gly Arg Cys Arg Cys Asn Val
 580 585 590
 Cys Glu Cys His Ser Gly Tyr Gln Leu Pro Leu Cys Gln Glu Cys Pro
 595 600 605
 Gly Cys Pro Ser Pro Cys Gly Lys Tyr Ile Ser Cys Ala Glu Cys Leu
 610 615 620
 Lys Phe Glu Lys Gly Pro Phe Gly Lys Asn Cys Ser Ala Ala Cys Pro
 625 630 635 640
 Gly Leu Gln Leu Ser Asn Asn Pro Val Lys Gly Arg Thr Cys Lys Glu
 645 650 655
 Arg Asp Ser Glu Gly Cys Trp Val Ala Tyr Thr Leu Glu Gln Gln Asp
 660 665 670
 Gly Met Asp Arg Tyr Leu Ile Tyr Val Asp Glu Ser Arg Glu Cys Val
 675 680 685
 Ala Gly Pro Asn Ile Ala Ala Ile Val Gly Gly Thr Val Ala Gly Ile
 690 695 700
 Val Leu Ile Gly Ile Leu Leu Leu Val Ile Trp Lys Ala Leu Ile His
 705 710 715 720
 Leu Ser Asp Leu Arg Glu Tyr Arg Arg Phe Glu Lys Glu Lys Leu Lys
 725 730 735
 Ser Gln Trp Asn Asn Asp Asn Pro Leu Phe Lys Ser Ala Thr Thr Thr
 740 745 750
 Val Met Asn Pro Lys Phe Ala Glu Ser
 755 760

<210> 3552

<211> 175

<212> PRT

<213> Homo sapiens

<400> 3552

Met Gly Ser Phe Val Thr Leu Asp Cys Glu Pro Leu Pro Leu Leu Ala

1 5 10 15

Pro Gln Ala Gly Ala Pro Ser Leu Gln Gly Leu Gly Leu Glu Arg Gln

20 25 30

Ala His Leu Gly Leu Asn Val Pro Ser Pro Ala Ala Thr Val Pro Pro

35 40 45

Arg Pro Ser Thr Pro Glu Ala Leu Thr Ser Phe Gly His Leu Ala Val

50 55 60

Leu Trp Ala Ser Pro Leu Pro Arg Ser Pro Cys Gly Arg Pro Gly Pro

65 70 75 80

Ser Gly Cys Phe Lys Gly Ser Thr Ala Pro Pro Leu His Leu Ala Ser

85 90 95

Leu Gln His Pro Val Pro Gly Ala Pro Leu Ser Cys Leu Gly Gln Pro

100 105 110

Gly Leu Pro Ala Pro Cys Pro Pro Leu Ala Leu Ser Asn Leu Pro Phe

115 120 125

Tyr Ser Cys His Leu Gly Ser Gln Met Pro Ser Trp Thr Gln Leu Pro

130 135 140

Glu Leu Ala Pro Pro Trp Gly Leu Ala Pro Ser Thr Pro Trp Gln Glu

145 150 155 160

Gln Pro Thr Pro Trp Ser Arg Phe Pro Tyr Pro Trp Ile Leu Asp

165 170 175

<210> 3553

<211> 176

<212> PRT

<213> Homo sapiens

<400> 3553

Met Gly Gly Tyr Leu Lys Thr Arg Pro Trp Thr Leu Gln His Phe Tyr

1 5 10 15

Leu Cys Leu Met Pro Ala Ala Thr Trp Leu Val Leu Leu Leu Leu

20 25 30

Trp Leu Ser Leu Gly Val Lys Thr Ala Ala Pro Asn Pro Arg Thr Phe

35 40 45

Ala Val Leu Gly Arg Ile Thr Ala Ala Arg Gly Glu Val Ala Thr Val

50 55 60

Met Asn Ser Ala Met Trp His Gln Thr Ala Thr Gln Thr Thr Val Ser

65 70 75 80

Ser Ala Thr Pro Val Thr His Ile Gln Ala Arg Phe His Leu Gln Gln

85 90 95

Ser Trp Met Arg Trp Leu Ala Glu Ala Asn Pro Leu Pro Ala Leu Gln

100 105 110

Ala Lys Ala Gly Met Trp Pro Arg Trp Phe Leu Arg Ser Leu Thr Ile

115 120 125

Leu Arg Ser Cys Ile Leu Ser Ile Ser Gly Gln Arg Cys Leu His Ala

130 135 140

Pro Ser Ser Phe Val Ser Leu Met Phe Leu Ala Thr Cys Tyr Ser Ser

145 150 155 160

Leu Ser Tyr Phe Ser Arg Phe His Arg Glu Arg Phe Ser Cys Pro Trp

165

170

175

<210> 3554

<211> 237

<212> PRT

<213> Homo sapiens

<400> 3554

Met Asn Arg His Phe Ser Lys Glu Asp Ile Tyr Ala Ala Lys Lys His

1

5

10

15

Met Arg Lys Cys Ser Leu Ser Leu Ala Ile Arg Glu Met Gln Ile Lys

20

25

30

Thr Thr Met Arg Tyr His Leu Thr Ala Val Arg Met Ala Ile Ile Lys

35

40

45

Lys Ser Gly Asn Asn Arg Cys Trp Arg Gly Cys Gly Glu Thr Gly Thr

50

55

60

Leu Leu His Cys Trp Trp Asp Cys Lys Leu Val Gln Pro Leu Trp Lys

65

70

75

80

Ser Val Trp Gln Phe Phe Arg Asp Leu Glu Leu Glu Ile Pro Phe Asp

85

90

95

Pro Ala Ile Pro Leu Leu Gly Ile Tyr Pro Lys Asp Tyr Lys Ser Cys

100

105

110

Cys Tyr Lys Asp Thr Cys Thr His Met Phe Ile Glu Ala Leu Phe Thr

115

120

125

Ile Ala Lys Thr Trp Asn Gln Pro Lys Cys Pro Thr Met Ile Asp Trp

130

135

140

Ile Lys Lys Met Trp His Ile Tyr Thr Met Glu Tyr Tyr Ala Ala Ile

145

150

155

160

Lys Asn Asp Glu Phe Met Ser Phe Val Gly Thr Trp Met Lys Leu Glu
 165 170 175
 Thr Ile Ile Leu Ser Lys Leu Ser Gln Gly Gln Lys Asn Gln Thr Pro
 180 185 190
 His Val Leu Thr His Arg Trp Glu Leu Asn Asn Glu Ile Thr Trp Thr
 195 200 205
 Gln Glu Gly Glu His His Thr Leu Gly Thr Val Val Arg Trp Gly Glu
 210 215 220
 Gly Gly Gly Ile Ala Leu Gly Asp Ile Pro Asn Val Lys
 225 230 235

<210> 3555

<211> 129

<212> PRT

<213> Homo sapiens

<400> 3555

Met Tyr Met Tyr Val Leu Cys Ile Ser His Thr Tyr Val Tyr Ile Thr
 1 5 10 15
 His Ile Cys Met Tyr Ile Thr His Ile Cys Val Tyr Gln Thr His Val
 20 25 30
 Cys Val Tyr His Thr His Met Tyr Val Tyr His Thr Tyr Met Tyr Val
 35 40 45
 Tyr His Thr His Ile Cys Met Tyr Ile Thr His Ile Cys Met Tyr Ile
 50 55 60
 Thr His Ile Tyr Val Cys Ile Ser His Ile Tyr Met Tyr Val Tyr His
 65 70 75 80
 Ala Tyr Met Cys Met Tyr Ile Thr Tyr Met Cys Val Tyr His Thr Tyr

	85		90		95										
Met	His	Val	Tyr	His	Thr	Tyr	Met	Cys	Val	Tyr	His	Ile	Tyr	Ile	Tyr
	100						105						110		
Met	His	Asp	Pro	Tyr	Leu	Lys	Val	Gly	Tyr	Phe	Ile	Thr	Lys	Tyr	Gln
	115						120						125		
Tyr															

<210> 3556

<211> 112

<212> PRT

<213> Homo sapiens

<400> 3556

Met	Pro	Leu	Phe	Pro	Leu	Pro	Cys	Pro	Trp	Glu	Ser	Trp	Arg	Gln	Leu
1				5					10					15	
Thr	Ser	Cys	Pro	Glu	Gly	Ser	Thr	Ala	Leu	Thr	Phe	Ser	Leu	Val	Ala
			20					25					30		
Ala	Ala	Ile	Leu	Leu	Gly	Ser	Ala	Gln	Lys	Ala	Leu	Val	Leu	Leu	Lys
		35					40					45			
Ala	Thr	Leu	Pro	Leu	Pro	Ala	Ala	Pro	Asp	Pro	Pro	Glu	Pro	Val	Leu
	50					55					60				
Leu	Pro	Pro	Pro	Gly	Pro	Arg	Leu	Val	Leu	Val	Phe	Thr	Leu	Leu	Arg
65				70					75				80		
Ala	Ser	Glu	Ser	Arg	Asp	Ile	Trp	Gly	His	Asp	Cys	Val	Ser	Leu	Gly
				85					90				95		
Ser	Phe	Gln	Lys	Arg	Leu	Arg	Lys	Leu	Leu	Leu	Arg	Asn	Leu	Ala	Leu
			100					105					110		

<210> 3557

<211> 334

<212> PRT

<213> Homo sapiens

<400> 3557

Met Glu Val Leu Ile Ala Ser Leu Glu Lys Ser Val Leu Gly Cys Trp

1 5 10 15

Lys Gly Leu Leu Leu Pro Ser Ser Glu Glu Pro Gly Pro Ala Gln Glu

20 25 30

Ala Ser Arg Leu Gln Glu Leu Leu Gln Asp Cys Gly Trp Lys Tyr Pro

35 40 45

Asp Arg Thr Leu Leu Lys Ile Met Leu Ser Gly Ala Gly Ala Leu Thr

50 55 60

Pro Gln Asp Ile Gln Ala Leu Ala Tyr Gly Leu Cys Pro Thr Gln Pro

65 70 75 80

Glu Arg Ala Gln Glu Leu Leu Asn Glu Ala Val Gly Arg Leu Gln Gly

85 90 95

Leu Thr Val Pro Ser Asn Ser His Leu Val Leu Val Leu Asp Lys Asp

100 105 110

Leu Gln Lys Leu Pro Trp Glu Ser Met Pro Ser Leu Gln Ala Leu Pro

115 120 125

Val Thr Arg Leu Pro Ser Phe Arg Phe Leu Leu Ser Tyr Ser Ile Ile

130 135 140

Lys Glu Tyr Gly Ala Ser Pro Val Leu Ser Gln Gly Val Asp Pro Arg

145 150 155 160

Ser Thr Phe Tyr Val Leu Asn Pro His Asn Asn Leu Ser Ser Thr Glu

165 170 175
Glu Gln Phe Arg Ala Asn Phe Ser Ser Glu Ala Gly Trp Arg Gly Val
180 185 190
Val Gly Glu Val Pro Arg Pro Glu Gln Val Gln Glu Ala Leu Thr Lys
195 200 205
His Asp Leu Tyr Ile Tyr Ala Gly His Gly Ala Gly Ala Arg Phe Leu
210 215 220
Asp Gly Gln Ala Val Leu Arg Leu Ser Cys Arg Ala Val Ala Leu Leu
225 230 235 240
Phe Gly Cys Ser Ser Ala Ala Leu Ala Val His Gly Asn Leu Glu Gly
245 250 255
Ala Gly Ile Val Leu Lys Tyr Ile Met Ala Gly Cys Pro Leu Phe Leu
260 265 270
Gly Asn Leu Trp Asp Val Thr Asp Arg Asp Ile Asp Arg Tyr Thr Glu
275 280 285
Thr Leu Leu Gln Gly Trp Leu Gly Ala Gly Pro Gly Ala Pro Leu Leu
290 295 300
Tyr Tyr Val Asn Gln Ala Arg Gln Ala Pro Arg Leu Lys Tyr Leu Ile
305 310 315 320
Gly Ala Ala Pro Ile Ala Tyr Gly Leu Pro Val Ser Leu Arg
325 330

<210> 3558

<211> 113

<212> PRT

<213> Homo sapiens

<400> 3558

Met Lys Val Thr Ser Leu Phe Lys Phe Gln Ile Gln Gly Pro Arg Cys
 1 5 10 15
 Ser Ser Lys Asp Ala Gly Val Gly Pro Cys Ala Arg Thr Lys Ser Met
 20 25 30
 Phe Gln Ile Lys Ser Arg Pro Ala Ser Arg Ser Asn Ile Gln Asp Gln
 35 40 45
 Val Gln Ile Gln Ile Gln Arg Arg Gly Pro Gln Pro Gly Thr Asn Ser
 50 55 60
 Ser Pro Arg Ser Lys Ser Lys Val Gln Val Asn Leu Gln Gly Pro Asp
 65 70 75 80
 His Gly Pro Lys Ser Lys Ile His Met Glu Val Gln Val Pro Cys Pro
 85 90 95
 Arg Pro Lys Asn Asp Ser Asp Pro Phe His Asp Gln Gly Ser Gly Leu
 100 105 110
 Arg

<210> 3559

<211> 189

<212> PRT

<213> Homo sapiens

<400> 3559

Met Pro Ile Leu Gly Leu Leu Val Ser Pro Leu Pro Pro Ser Gln Gly
 1 5 10 15
 Leu Met Val Ser Ser Asp Pro Leu Thr Gln Ser Phe Ile Ser Asp Ser
 20 25 30
 Thr Cys Ser Phe Pro Val Thr Leu Lys Cys Ala Gln Ile Ser Leu Ser

15

Leu Leu Lys Ser Gly Gly Val Asn Gln Tyr Val Val Gln Glu Val Leu
 20 25 30
 Ser Ile Lys His Leu Pro Pro Gln Leu Arg Ala Phe Gln Ala Ala Phe
 35 40 45
 Arg Ala Gln Gly Pro Leu Ala Met Leu Gln His Phe Asp Thr Ile Tyr
 50 55 60
 Ser Ile Leu His His Phe Arg Ser Ile Asp Pro Gly Leu Lys Glu Asp
 65 70 75 80
 Thr Leu Gln Phe Leu Ile Arg Leu Leu Glu Ser Phe Glu Thr Met Ala
 85 90 95
 Ser Gln Thr Asn Leu Val Asp Leu Asp Leu Gly Gly Lys Gly Lys Lys
 100 105 110
 Ala Arg Thr Lys Ala Ala His Gly Phe Asp Trp Glu Glu Glu Arg Gln
 115 120 125
 Pro Ile Leu Gln Leu Leu Thr Gln Leu Leu Gln Leu Asp Ile Arg His
 130 135 140
 Leu Trp Asn His Ser Ile Ile Glu Glu Glu Phe Val Ser Leu Val Thr
 145 150 155 160
 Gly Cys Cys Tyr Arg Leu Leu Glu Asn Pro Thr Ile Asn His Gln Lys
 165 170 175
 Asn Arg Pro Thr Arg Glu Ala Ile Thr His Leu Leu Gly Val Ala Leu
 180 185 190
 Thr Arg Tyr Asn His Met Leu Ser Ala Thr Val Lys Ile Ile Gln Met
 195 200 205
 Leu Gln His Phe Glu His Leu Ala Pro Val Leu Val Ala Ala Val Ser
 210 215 220
 Leu Trp Ala Thr Asp Tyr Gly Met Lys Ser Ile Val Gly Glu Ile Val
 225 230 235 240
 Arg Glu Ile Gly Gln Lys Cys Pro Gln Glu Leu Ser Arg Asp Pro Ser

245	250	255
Gly Thr Lys Gly Phe Ala Ala Phe Leu Thr Glu Leu Ala Glu Arg Val		
260	265	270
Pro Ala Ile Leu Met Ser Ser Met Cys Ile Leu Leu Asp His Leu Asp		
275	280	285
Gly Glu Asn Tyr Met Met Arg Asn Ala Val Leu Ala Ala Met Ala Glu		
290	295	300
Met Val Leu Gln Val Leu Ser Gly Asp Gln Leu Glu Ala Ala Ala Arg		
305	310	315
320		
Asp Thr Arg Asp Gln Phe Leu Asp Thr Leu Gln Ala His Gly His Asp		
325	330	335
Val Asn Ser Phe Val Arg Ser Arg Val Leu Gln Leu Phe Thr Arg Ile		
340	345	350
Val Gln Gln Lys Ala Leu Pro Leu Thr Arg Phe Gln Ala Val Val Ala		
355	360	365
Leu Ala Val Gly Arg Leu Ala Asp Lys Ser Val Leu Val Cys Lys Asn		
370	375	380
Ala Ile Gln Leu Leu Ala Ser Phe Leu Ala Asn Asn Pro Phe Ser Cys		
385	390	395
400		
Lys Leu Ser Asp Ala Asp Leu Ala Gly Pro Leu Gln Lys Glu Thr Gln		
405	410	415
Lys Leu Gln Glu Met Arg Ala Gln Arg Arg Thr Ala Ala Ala Ser Ala		
420	425	430
Val Leu Asp Pro Glu Glu Glu Trp Glu Ala Met Leu Pro Glu Leu Lys		
435	440	445
Ser Thr Leu Gln Gln Leu Leu Gln Leu Pro Gln Gly Glu Glu Glu Ile		
450	455	460
Pro Glu Gln Ile Ala Asn Thr Glu Thr Thr Glu Asp Val Lys Gly Arg		
465	470	475
480		

Ile Tyr Gln Leu Leu Ala Lys Ala Ser Tyr Lys Lys Ala Ile Ile Leu
485 490 495
Thr Arg Glu Ala Thr Gly His Phe Gln Glu Ser Glu Pro Phe Ser His
500 505 510
Ile Asp Pro Glu Glu Ser Glu Glu Thr Arg Leu Leu Asn Ile Leu Gly
515 520 525
Leu Ile Phe Lys Gly Pro Ala Ala Ser Thr Gln Glu Lys Asn Pro Arg
530 535 540
Glu Ser Thr Gly Asn Met Val Thr Gly Gln Thr Val Cys Lys Asn Lys
545 550 555 560
Pro Asn Met Ser Asp Pro Glu Glu Ser Arg Gly Asn Asp Glu Leu Val
565 570 575
Lys Gln Glu Met Leu Val Gln Tyr Leu Gln Asp Ala Tyr Ser Phe Ser
580 585 590
Arg Lys Ile Thr Glu Ala Ile Gly Ile Ile Ser Lys Met Met Tyr Glu
595 600 605
Asn Thr Thr Thr Val Val Gln Glu Val Ile Glu Phe Phe Val Met Val
610 615 620
Phe Gln Phe Gly Val Pro Gln Ala Leu Phe Gly Val Arg Arg Met Leu
625 630 635 640
Pro Leu Ile Trp Ser Lys Glu Pro Gly Val Arg Glu Ala Val Leu Asn
645 650 655
Ala Tyr Arg Gln Leu Tyr Leu Asn Pro Lys Gly Asp Ser Ala Arg Ala
660 665 670
Lys Ala Gln Ala Leu Ile Gln Asn Leu Ser Leu Leu Leu Val Asp Ala
675 680 685
Ser Val Gly Thr Ile Gln Cys Leu Glu Glu Ile Leu Cys Glu Phe Val
690 695 700
Gln Lys Asp Glu Leu Lys Pro Ala Val Thr Gln Leu Leu Trp Glu Arg

705 710 715 720
Ala Thr Glu Lys Val Ala Cys Cys Pro Leu Glu Arg Cys Ser Ser Val
725 730 735
Met Leu Leu Gly Met Met Ala Arg Gly Lys Pro Glu Ile Val Gly Ser
740 745 750
Asn Leu Asp Thr Leu Val Ser Ile Gly Leu Asp Glu Asn Phe Pro Gln
755 760 765
Asp Tyr Arg Leu Ala Gln Gln Val Cys His Ala Ile Ala Asn Ile Ser
770 775 780
Asp Arg Arg Lys Pro Ser Leu Gly Lys Arg His Pro Pro Phe Arg Leu
785 790 795 800
Pro Gln Glu His Arg Leu Phe Glu Arg Leu Arg Glu Thr Val Thr Lys
805 810 815
Gly Phe Val His Pro Asp Pro Leu Trp Ile Pro Phe Lys Glu Val Ala
820 825 830
Val Thr Leu Ile Tyr Gln Leu Ala Glu Gly Pro Glu Val Ile Cys Ala
835 840 845
Gln Ile Leu Gln Gly Cys Ala Lys Gln Ala Leu Glu Lys Leu Glu Glu
850 855 860
Lys Arg Thr Ser Gln Glu Asp Pro Lys Glu Ser Pro Ala Met Leu Pro
865 870 875 880
Thr Phe Leu Leu Met Asn Leu Leu Ser Leu Ala Gly Asp Val Ala Leu
885 890 895
Gln Gln Leu Val His Leu Glu Gln Ala Val Ser Gly Glu Leu Cys Arg
900 905 910
Arg Arg Val Leu Arg Glu Glu Gln Glu His Lys Thr Lys Asp Pro Lys
915 920 925
Glu Lys Asn Thr Ser Ser Glu Thr Thr Met Glu Glu Glu Leu Gly Leu
930 935 940

Val Gly Ala Thr Ala Asp Asp Thr Glu Ala Glu Leu Ile Arg Gly Ile
945 950 955 960
Cys Glu Met Glu Leu Leu Asp Gly Lys Gln Thr Leu Ala Ala Phe Val
965 970 975
Pro Leu Leu Leu Lys Val Cys Asn Asn Pro Gly Leu Tyr Ser Asn Pro
980 985 990
Asp Leu Ser Ala Ala Ala Ser Leu Ala Leu Gly Lys Phe Cys Met Ile
995 1000 1005
Ser Ala Thr Phe Cys Asp Ser Gln Leu Arg Leu Leu Phe Thr Met Leu
1010 1015 1020
Glu Lys Ser Pro Leu Pro Ile Val Arg Ser Asn Leu Met Val Ala Thr
1025 1030 1035 1040
Gly Asp Leu Ala Ile Arg Phe Pro Asn Leu Val Asp Pro Trp Thr Pro
1045 1050 1055
His Leu Tyr Ala Arg Leu Arg Asp Pro Ala Gln Gln Val Arg Lys Thr
1060 1065 1070
Ala Gly Leu Val Met Thr His Leu Ile Leu Lys Asp Met Val Lys Val
1075 1080 1085
Lys Gly Gln Val Ser Glu Met Ala Val Leu Leu Ile Asp Pro Glu Pro
1090 1095 1100
Gln Ile Ala Ala Leu Ala Lys Asn Phe Phe Asn Glu Leu Ser His Lys
1105 1110 1115 1120
Gly Asn Ala Ile Tyr Asn Leu Leu Pro Asp Ile Ile Ser Arg Leu Ser
1125 1130 1135
Asp Pro Glu Leu Gly Val Glu Glu Glu Pro Phe His Thr Ile Met Lys
1140 1145 1150
Gln Leu Leu Ser Tyr Ile Thr Lys Asp Lys Gln Thr Glu Ser Leu Val
1155 1160 1165
Glu Lys Leu Cys Gln Arg Phe Arg Thr Ser Arg Thr Glu Arg Gln Gln

1170	1175	1180	
Arg Asp Leu Ala Tyr Cys Val Ser Gln Leu Pro Leu Thr Glu Arg Gly			
1185	1190	1195	1200
Leu Arg Lys Met Leu Asp Asn Phe Asp Cys Phe Gly Asp Lys Leu Ser			
1205	1210	1215	
Asp Glu Ser Ile Phe Ser Ala Phe Leu Ser Val Val Gly Lys Leu Arg			
1220	1225	1230	
Arg Gly Ala Lys Pro Glu Gly Lys Ala Ile Ile Asp Glu Phe Glu Gln			
1235	1240	1245	
Lys Leu Arg Ala Cys His Thr Arg Gly Leu Asp Gly Ile Lys Glu Leu			
1250	1255	1260	
Glu Ile Gly Gln Ala Gly Ser Gln Arg Ala Pro Ser Ala Lys Lys Pro			
1265	1270	1275	1280
Ser Ala Gly Ser Arg Tyr Gln Pro Leu Ala Ser Thr Ala Ser Asp Asn			
1285	1290	1295	
Asp Phe Val Thr Pro Glu Pro Arg Arg Thr Thr Arg Arg His Pro Asn			
1300	1305	1310	
Thr Gln Gln Arg Ala Ser Lys Lys Lys Pro Lys Val Val Phe Ser Ser			
1315	1320	1325	
Asp Glu Ser Ser Glu Glu Asp Leu Ser Ala Glu Met Thr Glu Asp Glu			
1330	1335	1340	
Thr Pro Lys Lys Thr Thr Pro Ile Leu Arg Ala Ser Ala Arg Arg His			
1345	1350	1355	1360
Arg Ser			

<210> 3561

<211> 150

<212> PRT

<213> Homo sapiens

<400> 3561

Met Arg Gln Leu Ala His Ser Gly Thr Cys Thr Leu Gly Cys Val His

1 5 10 15

Thr Arg Ala Cys Ala Pro Thr Leu Lys His Arg Val Thr Gln Leu Ile

20 25 30

His Thr His Thr Phe Ser His Thr Gln Thr Gln Gly His Thr Thr Gln

35 40 45

Ile Gln Thr His Thr Leu Pro His Thr Phe Lys His Arg Val Thr Gln

50 55 60

Leu Ile Asn Thr His Thr Asp Thr His Ala Pro Thr His Ser Pro Ser

65 70 75 80

Trp Pro Glu Pro Leu Leu Pro Gly His Lys Gly Ala Asp Glu Arg Cys

85 90 95

Arg Gly Pro Cys Arg Leu Leu Leu Ala Phe Gly Cys Pro Gln Gly Ser

100 105 110

Asn Leu Ala Ala Glu Trp Phe Val Gly Gly Val Leu Lys Ile Gln Thr

115 120 125

Gln Lys Trp Glu Leu Leu Val Gly Gln His Gln Asp Leu Arg Trp Gly

130 135 140

Gly Phe Gly Ser Arg Val

145 150

<210> 3562

<211> 142

<212> PRT

<213> Homo sapiens

<400> 3562

Met Asn Glu Leu Ile Ser Ser Cys Ile Leu Pro Glu Ser Thr Glu Trp
1 5 10 15
Ile Cys Gln Thr Gln Thr Ala Gly Gln Ala Ser Asp Ser Val Gly Leu
20 25 30
Gly Gly Ala Arg Glu Cys Val Phe Leu Thr Ser Ser Arg Met Thr Leu
35 40 45
Met Pro Leu Ala Gly Asp Pro Thr Leu Pro Asp Asp Thr Gly Leu Glu
50 55 60
Ala Gly Cys Val Val Ala Ser Gly Ala Pro Val Val Thr Ala Gly Glu
65 70 75 80
Ser Gly Trp Gln Val Cys Ala Phe Leu Ala Arg His Ser Ala Cys His
85 90 95
Leu Val Tyr Leu Thr Cys Phe Phe Leu His Val Gly Ser Ser Ala Thr
100 105 110
Leu Glu Gly Thr His Ser Asp Lys Leu Gln Asn Ile Arg Glu Trp Gly
115 120 125
Gln Lys Leu Ser Gly Asn Ala Gly Arg Gly Gly Ser Cys Leu
130 135 140

<210> 3563

<211> 354

<212> PRT

<213> Homo sapiens

<400> 3563

Met Ala Gly Gln Val Ala Arg Val Val His Ile Thr Glu Asp Gly Gln
 1 5 10 15
 Val Ile Ala Thr Ser Gln Ser Gly Ala His Val Gly Ser Val Val Pro
 20 25 30
 Gly Pro Ile Leu Pro Glu Gln Leu Ala Asp Gly Ala Thr Gln Val Val
 35 40 45
 Val Val Gly Gly Ser Met Glu Gly His Gly Met Asp Glu Ser Leu Ser
 50 55 60
 Pro Gly Gly Ala Val Ile Gln Gln Val Thr Lys Gln Glu Ile Leu Asn
 65 70 75 80
 Leu Ser Glu Ala Gly Val Ala Pro Pro Glu Ala Ser Ser Ala Leu Asp
 85 90 95
 Ala Leu Leu Cys Ala Val Thr Glu Leu Gly Glu Val Glu Gly Arg Ala
 100 105 110
 Gly Leu Glu Glu Gln Gly Arg Pro Gly Ala Lys Asp Val Leu Ile Gln
 115 120 125
 Leu Pro Gly Gln Glu Val Ser His Val Ala Ala Asp Pro Glu Ala Pro
 130 135 140
 Glu Ile Gln Met Phe Pro Gln Ala Gln Glu Ser Pro Ala Ala Val Glu
 145 150 155 160
 Val Leu Thr Gln Val Val His Pro Ser Ala Ala Met Ala Ser Gln Glu
 165 170 175
 Arg Ala Gln Val Ala Phe Lys Lys Met Val Gln Gly Val Leu Gln Phe
 180 185 190
 Ala Val Cys Asp Thr Ala Ala Ala Gly Gln Leu Val Lys Asp Gly Val
 195 200 205
 Thr Gln Val Val Val Ser Glu Glu Gly Ala Val His Met Val Ala Gly
 210 215 220
 Glu Gly Ala Gln Ile Ile Met Gln Glu Ala Gln Gly Glu His Met Asp

225 230 235 240
 Leu Val Glu Ser Asp Gly Glu Ile Ser Gln Ile Ile Val Thr Glu Glu
 245 250 255
 Leu Val Gln Ala Met Val Gln Glu Ser Ser Gly Gly Phe Ser Lys Gly
 260 265 270
 Thr Thr His Tyr Ile Leu Thr Glu Leu Pro Pro Gly Val Gln Asp Glu
 275 280 285
 Pro Gly Leu Tyr Ser His Thr Val Leu Glu Thr Ala Asp Ser Gln Glu
 290 295 300
 Leu Leu Gln Ala Gly Ala Thr Leu Gly Thr Glu Ala Gly Ala Pro Ser
 305 310 315 320
 Arg Ala Glu Gln Leu Ala Ser Val Val Ile Tyr Thr Gln Glu Gly Ser
 325 330 335
 Ser Ala Ala Ala Ala Ile Gln Ser Gln Arg Glu Ser Ser Glu Leu Gln
 340 345 350
 Glu Ala

<210> 3564

<211> 166

<212> PRT

<213> Homo sapiens

<400> 3564

Met Cys Leu Cys Arg Pro Leu Leu Pro Gln Arg Ala Gln Tyr Gln Asp
 1 5 10 15
 Lys Leu Ala Arg Gln Arg Tyr Glu Asp Gln Leu Lys Gln Gln Gln Leu
 20 25 30

Leu Asn Val Glu Asn Leu Arg Lys Gln Glu Glu Ser Val Gln Lys Gln
 35 40 45
 Glu Ala Met Arg Arg Ala Thr Val Glu Arg Glu Met Glu Leu Arg His
 50 55 60
 Lys Asn Glu Met Leu Arg Val Glu Thr Glu Ala Arg Ala Arg Ala Lys
 65 70 75 80
 Ala Glu Arg Glu Asn Ala Asp Ile Ile Arg Glu Gln Ile Arg Leu Lys
 85 90 95
 Ala Ser Glu His Arg Gln Thr Val Leu Glu Ser Ile Arg Thr Ala Gly
 100 105 110
 Thr Leu Phe Gly Glu Gly Phe Arg Ala Phe Val Thr Asp Arg Asp Lys
 115 120 125
 Val Thr Ala Thr Val Asn Ile Phe Ile Lys Gln Gly Trp Gln Val Ala
 130 135 140
 Glu Arg Gln His Val Gly Ala Ser Trp Ser Pro Arg Ser Cys Pro Cys
 145 150 155 160
 Arg Leu Cys Thr Ala Leu
 165

<210> 3565

<211> 313

<212> PRT

<213> Homo sapiens

<400> 3565

Met Ala Ala Ile Gly Arg Gly Arg Ser Leu Lys Asn Leu Arg Val Arg
 1 5 10 15
 Glu Pro Ser Asp Asn Leu Arg Glu Ile Leu Gln Asn Val Ala Arg Leu

	20		25		30
Gln Gly Val Ser Asn Met Arg Lys Leu Gly His Leu Asn Asn Phe Thr					
	35		40		45
Lys Leu Leu Cys Asp Ile Gly His Ser Glu Glu Lys Leu Gly Phe His					
	50		55		60
Tyr Glu Asp Ile Ile Ile Cys Leu Arg Leu Ala Leu Leu Asn Glu Ala					
65		70		75	80
Lys Glu Val Arg Ala Ala Gly Leu Arg Ala Leu Arg Tyr Leu Ile Gln					
	85		90		95
Asp Ser Ser Ile Leu Gln Lys Val Leu Lys Leu Lys Val Asp Tyr Leu					
	100		105		110
Ile Ala Arg Cys Ile Asp Ile Gln Gln Ser Asn Glu Val Glu Arg Thr					
	115		120		125
Gln Ala Leu Arg Leu Val Arg Lys Met Ile Thr Val Asn Ala Ser Leu					
130		135		140	
Phe Pro Ser Ser Val Thr Asn Ser Leu Ile Ala Val Gly Asn Asp Gly					
145		150		155	160
Leu Gln Glu Arg Asp Arg Met Val Arg Ala Cys Ile Ala Ile Ile Cys					
	165		170		175
Glu Leu Ala Leu Gln Asn Pro Glu Val Val Ala Leu Arg Gly Gly Leu					
	180		185		190
Asn Thr Ile Leu Lys Asn Val Ile Asp Cys Gln Leu Ser Arg Ile Asn					
	195		200		205
Glu Ala Leu Ile Thr Thr Ile Leu His Leu Leu Asn His Pro Lys Thr					
210		215		220	
Arg Gln Tyr Val Arg Ala Asp Val Glu Leu Glu Arg Ile Leu Ala Pro					
225		230		235	240
Tyr Thr Asp Phe His Tyr Arg His Ser Pro Asp Thr Ala Glu Gly Gln					
	245		250		255

Leu Lys Glu Asp Arg Glu Ala Arg Phe Leu Ala Ser Lys Met Gly Ile
 260 265 270
 Ile Ala Thr Phe Arg Ser Trp Ala Gly Ile Ile Asn Leu Cys Lys Pro
 275 280 285
 Gly Asn Ser Gly Ile Gln Ser Leu Ile Gly Val Leu Cys Ile Pro Asn
 290 295 300
 Met Glu Ile Arg Val Gly Lys Ser Tyr
 305 310

<210> 3566

<211> 294

<212> PRT

<213> Homo sapiens

<400> 3566

Met Ser Pro Tyr Leu Gly Leu Pro Trp Gly Thr Glu Thr Val Val Trp
 1 5 10 15
 Gln Pro Gln Pro Ser Gln Gly Leu Ile Leu Leu Ser Ser Cys Pro Trp
 20 25 30
 Glu Ala Ser Ala Cys His Phe Pro Glu Ile Ala Glu Val Cys Pro Ala
 35 40 45
 Tyr His Leu Pro Val Gln Leu Gly Gly Gly Pro Gly His His Phe Leu
 50 55 60
 Gln Ser Trp Ala Pro Ser Leu Arg Ala Phe Pro Ala Ser Gln Gln Glu
 65 70 75 80
 Arg Gln Glu Leu Gly Glu His Arg Asn Leu Gly Glu Glu Gly Ser Ala
 85 90 95
 Gly His Pro Gln Ala Gly Gly Gln Gly Leu Pro Leu Glu Ala Leu Glu

100	105	110
Glu Gly Ile Cys Leu Trp Glu Pro Arg Gly Cys Arg Glu Glu Glu Glu		
115	120	125
Gly Gly Ile Trp Cys Glu Arg Cys Pro Cys Asp Ile Trp Asp His Thr		
130	135	140
Gly Gly Leu Pro Tyr Ser Leu Thr Lys Pro Leu Phe Pro Ala Leu Pro		
145	150	155
Pro Ser Leu Asp Glu Gly Thr Glu Val Glu Glu Thr Lys Glu Ala Ala		
165	170	175
Ala Arg Thr Val Leu Ser Leu Gly Ala Glu Thr Ala Trp Gln Ser Pro		
180	185	190
Thr Gln Pro Trp Pro Asp Ala Gly Pro Arg Pro Ser Phe Leu Gly Cys		
195	200	205
Gln Met Thr Val Ser Trp Thr Ser Asp Ala Pro Pro Ala Leu Pro Val		
210	215	220
Ala Asn Val Met Leu Pro Asp Gly Val Glu Lys Leu Gly Asp Trp Asp		
225	230	235
Lys Gln Lys Ala Ala Asn Asn Pro Glu Ala His Pro Gln Lys Thr Gly		
245	250	255
Glu Met Ile Glu Glu Cys Met Gly Thr Val Ala Leu Cys Ser Ile Thr		
260	265	270
Asn Thr Ser Gln Lys Gln Arg Gly Met Lys Lys Gln Asp Ser Ser Tyr		
275	280	285
Ser Met Met Pro Phe Leu		
290		

<210> 3567

<211> 682

<212> PRT

<213> Homo sapiens

<400> 3567

Met	Glu	Ser	Leu	Thr	Leu	Glu	Asp	Val	Ala	Val	Asp	Phe	Thr	Trp	Glu
1				5					10					15	
Glu	Trp	Gln	Phe	Leu	Ser	Pro	Ala	Gln	Lys	Asp	Leu	Tyr	Arg	Asp	Val
				20					25					30	
Met	Leu	Glu	Asn	Tyr	Ser	Asn	Leu	Val	Ala	Val	Gly	Tyr	Gln	Ala	Ser
				35					40					45	
Lys	Pro	Asp	Ala	Leu	Ser	Lys	Leu	Glu	Arg	Gly	Glu	Glu	Thr	Cys	Thr
				50					55					60	
Thr	Glu	Asp	Glu	Ile	Tyr	Ser	Arg	Ile	Cys	Ser	Asp	Ser	Gly	Gly	Ala
				65					70					75	
Ser	Gly	Gly	Ala	Tyr	Ala	Glu	Ile	Arg	Lys	Ile	Asp	Asp	Pro	Leu	Gln
				85					90					95	
His	His	Leu	Gln	Asn	Gln	Ser	Ile	Gln	Lys	Ser	Val	Lys	Gln	Cys	His
				100					105					110	
Glu	Gln	Asn	Met	Phe	Gly	Asn	Ile	Val	Asn	Gln	Asn	Lys	Gly	His	Phe
				115					120					125	
Leu	Leu	Lys	Gln	Asp	Cys	Asp	Met	Phe	Asp	Leu	His	Glu	Lys	Pro	Leu
				130					135					140	
Lys	Ser	Asn	Leu	Ser	Phe	Glu	Asn	Gln	Lys	Arg	Ser	Ser	Gly	Leu	Lys
				145					150					155	
Asn	Ser	Ala	Glu	Phe	Asn	Arg	Asp	Gly	Lys	Ser	Leu	Phe	His	Ala	Asn
				165					170					175	
His	Lys	Gln	Phe	Tyr	Thr	Glu	Met	Lys	Phe	Pro	Ala	Ile	Ala	Lys	Pro
				180					185					190	
Ile	Asn	Lys	Ser	Gln	Phe	Ile	Lys	Gln	Gln	Arg	Thr	His	Asn	Ile	Glu

195	200	205
Asn Ala His Val Cys Ser Glu Cys Gly Lys Ala Phe Leu Lys Leu Ser		
210	215	220
Gln Phe Ile Asp His Gln Arg Val His Thr Gly Glu Lys Pro His Val		
225	230	235
Cys Ser Met Cys Gly Lys Ala Phe Ser Arg Lys Ser Arg Leu Met Asp		
245	250	255
His Gln Arg Thr His Thr Glu Leu Lys His Tyr Glu Cys Thr Glu Cys		
260	265	270
Asp Lys Thr Phe Leu Lys Lys Ser Gln Leu Asn Ile His Gln Lys Thr		
275	280	285
His Met Gly Gly Lys Pro Tyr Thr Cys Ser Gln Cys Gly Lys Ala Phe		
290	295	300
Ile Lys Lys Cys Arg Leu Ile Tyr His Gln Arg Thr His Thr Gly Glu		
305	310	315
Lys Pro His Gly Cys Ser Val Cys Gly Lys Ala Phe Ser Thr Lys Phe		
325	330	335
Ser Leu Thr Thr His Gln Lys Thr His Thr Gly Glu Lys Pro Tyr Ile		
340	345	350
Cys Ser Glu Cys Gly Lys Gly Phe Ile Glu Lys Arg Arg Leu Ile Ala		
355	360	365
His His Arg Thr His Thr Gly Glu Lys Pro Phe Ile Cys Asn Lys Cys		
370	375	380
Gly Lys Gly Phe Thr Leu Lys Asn Ser Leu Ile Thr His Gln Gln Thr		
385	390	395
His Thr Gly Glu Lys Leu Tyr Thr Cys Ser Glu Cys Gly Lys Gly Phe		
405	410	415
Ser Met Lys His Cys Leu Met Val His Gln Arg Thr His Thr Gly Glu		
420	425	430

Lys Pro Tyr Lys Cys Asn Glu Cys Gly Lys Gly Phe Ala Leu Lys Ser
 435 440 445
 Pro Leu Ile Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Val
 450 455 460
 Cys Thr Glu Cys Arg Lys Gly Phe Thr Met Lys Ser Asp Leu Ile Val
 465 470 475 480
 His Gln Arg Thr His Thr Ala Glu Lys Pro Tyr Ile Cys Asn Asp Cys
 485 490 495
 Gly Lys Gly Phe Thr Val Lys Ser Arg Leu Ile Val His Gln Arg Thr
 500 505 510
 His Thr Gly Glu Lys Pro Tyr Val Cys Gly Glu Cys Gly Lys Gly Phe
 515 520 525
 Pro Ala Lys Ile Arg Leu Met Gly His Gln Arg Thr His Thr Gly Glu
 530 535 540
 Lys Pro Tyr Ile Cys Asn Glu Cys Gly Lys Gly Phe Thr Met Lys Ser
 545 550 555 560
 Thr Leu Ser Ile His Gln Gln Thr His Thr Gly Glu Lys Pro Tyr Lys
 565 570 575
 Cys Asn Glu Cys Asp Lys Thr Phe Arg Lys Lys Thr Cys Leu Ile Gln
 580 585 590
 His Gln Arg Phe His Thr Gly Lys Thr Ser Phe Ala Cys Thr Glu Cys
 595 600 605
 Gly Lys Phe Ser Leu Arg Lys Asn Asp Leu Ile Thr His Gln Arg Ile
 610 615 620
 His Thr Gly Glu Lys Pro Tyr Lys Cys Ser Asp Cys Gly Lys Ala Phe
 625 630 635 640
 Thr Thr Lys Ser Gly Leu Asn Val His Gln Arg Lys His Thr Gly Glu
 645 650 655
 Arg Pro Tyr Gly Cys Ser Asp Cys Gly Lys Ala Phe Ala His Leu Ser

660 665 670
 Ile Leu Val Lys His Lys Arg Ile His Arg
 675 680

<210> 3568

<211> 114

<212> PRT

<213> Homo sapiens

<400> 3568

Met Gly Gln Glu Gly Ala Phe Pro Arg Ile Ser Gly Ser Thr Val Phe
 1 5 10 15
 Ser Leu Asp Gln Asn Gly Ile Thr Val Tyr Phe Asp Trp Ser Val Ser
 20 25 30
 Gly Phe Arg Leu Ser Leu Gly Trp Ala Ser Gly Ser Gly Arg Lys Asp
 35 40 45
 Leu Gly Ser Gly Val Ser Leu Gly Arg Gly Gly Ala Gly Pro Pro Ala
 50 55 60
 Gly Ser Pro Ala Pro Ser Val Gly Leu Pro Ser Thr Thr Gly Phe Ala
 65 70 75 80
 Glu Ala Pro Ala Pro Pro Ser Arg Arg Ala Arg Pro Gln His Trp Ser
 85 90 95
 Leu Ser Ser Val Phe Arg Ala Thr Gly Pro Trp Ala Ala Thr Thr Gly
 100 105 110
 Ala Ser

<210> 3569

<211> 325

<212> PRT

<213> Homo sapiens

<400> 3569

Met Ala Leu Ala Asp Ser Thr Arg Gly Leu Pro Asn Gly Gly Gly Gly

1 5 10 15

Gly Gly Gly Ser Gly Ser Ser Ser Ser Ser Ala Glu Pro Pro Leu Phe

20 25 30

Pro Asp Ile Val Glu Leu Asn Val Gly Ser Gln Val Tyr Val Thr Arg

35 40 45

Arg Cys Thr Val Val Ser Val Pro Asp Ser Leu Leu Trp Arg Met Phe

50 55 60

Thr Gln Gln Gln Pro Gln Glu Leu Ala Arg Asp Ser Lys Gly Arg Phe

65 70 75 80

Phe Leu Asp Arg Asp Gly Phe Leu Phe Arg Tyr Ile Leu Asp Tyr Leu

85 90 95

Arg Asp Leu Gln Leu Val Leu Pro Asp Tyr Phe Pro Glu Arg Ser Arg

100 105 110

Leu Gln Arg Glu Ala Glu Tyr Phe Glu Leu Pro Glu Leu Val Arg Arg

115 120 125

Leu Gly Ala Pro Gln Gln Pro Gly Pro Gly Pro Pro Pro Ser Arg Arg

130 135 140

Gly Val His Lys Glu Gly Ser Leu Gly Asp Glu Leu Leu Pro Leu Gly

145 150 155 160

Tyr Ser Glu Pro Glu Gln Gln Glu Gly Ala Ser Ala Gly Ala Pro Ser

165 170 175

Pro Thr Leu Glu Leu Ala Ser Arg Ser Pro Ser Gly Gly Ala Ala Gly

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Ser Trp Lys Pro Asn His Lys Asp Tyr Tyr Asn Cys Ser Ala Met Val
 20 25 30
 Arg Arg Trp Ala Leu Gly Glu Gly Arg Gly Pro Glu Pro Ser Gly Arg
 35 40 45
 Gly Ala Ala Thr Arg Ser Trp Ala Asp Arg Ala Pro Cys Ala Val Gln
 50 55 60
 His Ser Ser Cys Trp Asp Arg Gly Ser Leu Trp Gly Arg Gln Ser His
 65 70 75 80
 Leu Gly Leu Gln Met Leu Glu Ser Leu Phe Thr Gly Thr Phe Ser Ser
 85 90 95
 Arg Thr Gly Leu Leu Ile Pro Arg Trp Leu Gln Lys Gly Trp Gly Gly
 100 105 110
 Leu Gly Thr Leu Arg Arg Gln Gln Gly Arg Ala Gly Lys Ser Arg Asp
 115 120 125
 Pro Ala Phe Arg Ala Trp Leu Cys Cys Leu Ala Cys Gly Phe Glu Gln
 130 135 140
 Val His Leu Leu Leu Gln Ala Ser Thr Ala Ser Ala Lys Gly Val Asn
 145 150 155 160
 Asn Met Thr Tyr Ser Thr Gln Ser
 165

<210> 3571

<211> 105

<212> PRT

<213> Homo sapiens

<400> 3571

Met Ile Ser Phe Asp Ser Met Ser His Ile Trp Val Thr Leu Met Gln

1	5	10	15
Glu Val Gly Ser His Gly Leu Glu Gln Leu His Pro Ser Gly Phe Ala			
20	25	30	
Gly Tyr Ser Leu Leu Pro Gly Cys Phe His Arg Leu Ala Leu Ser Ile			
35	40	45	
Cys Ser Phe Ser Arg Cys Thr Val Gln Ala Val Gly Gly Ser Thr Ile			
50	55	60	
Leu Gly Phe Gly Arg Trp Trp Ser Ser Ser Tyr Ser Ser Thr Arg Gln			
65	70	75	80
Cys Cys Ile Arg Asp Ser Val Trp Gly Leu Leu Pro His Thr Ser Leu			
85	90	95	
Leu His Cys Pro Ser Thr Gly Thr Pro			
100	105		

<210> 3572

<211> 174

<212> PRT

<213> Homo sapiens

<400> 3572

Met Lys Gly Ser Leu Met Ala Thr Ile Ser Ile Val Leu Glu Leu Lys			
1	5	10	15
Ala Ala Leu Val Thr Arg His Pro Ile Cys Pro Asn Leu Phe Thr Pro .			
20	25	30	
Ala Phe Ala Phe Pro Leu Val Pro Gln Gly Arg Asn Trp Cys Cys Met			
35	40	45	
Arg Arg Cys Ser Cys Gln Ser Asn Arg Arg Ser Arg Glu Pro Ala Ile			
50	55	60	

Ala Ser Asp Ser Ile Thr Gly Ala Gly Leu Ser Val Ile Ala Trp Asp
 65 70 75 80
 Gly Lys Tyr Ser Phe Cys Phe Trp Arg Lys Tyr Phe Thr His Glu Asp
 85 90 95
 Gln Asp Gln Leu Ile Arg Thr Gly Arg Asn Lys Gly Thr Met Cys Gly
 100 105 110
 Ser Gly Ser Phe Phe Phe Phe Leu Arg Glu Gly Leu Ala Leu Ser Pro
 115 120 125
 Met Leu Lys Cys His Cys Ala Asn Thr Ser Leu Tyr Ser Leu Asn Leu
 130 135 140
 Leu Gly Ser Ser Asn Pro Pro Ala Ser Asp Ser Gln Val Ala Gly Thr
 145 150 155 160
 Ile Val Ala Cys His His Ala Trp Leu Ile Phe Asn Phe Leu
 165 170

<210> 3573

<211> 575

<212> PRT

<213> Homo sapiens

<400> 3573

Met Arg Ile Leu Val Ile Gly Leu Ser Arg Glu Leu Pro Leu Gly Pro
 1 5 10 15
 Ala Asp Ala Met Glu Leu Ala Asp His Leu Val Lys Arg Ala Ala Ala
 20 25 30
 Val Gln Ala Asp Asp Val Glu Val Leu Lys Val Gly Arg Thr Gln Leu
 35 40 45
 Ile Asp Ala Val Leu Asn Leu Cys Thr Tyr His His Pro Glu Asn Ile

50	55	60
Gln Leu Pro Pro Gly Tyr Gln Pro Pro Asn Leu Ala Ile Ser Thr Leu		
65	70	75
Tyr Trp Lys Ala Trp Pro Leu Leu Leu Val Val Ala Ala Phe Asn Pro		
85	90	95
Glu Asn Ile Gly Leu Ala Ala Trp Glu Glu Tyr Pro Thr Leu Lys Met		
100	105	110
Leu Met Glu Met Val Met Thr Asn Asn Tyr Ser Tyr Pro Pro Cys Thr		
115	120	125
Leu Thr Asp Glu Glu Thr Arg Thr Glu Met Leu Asn Arg Glu Leu Gln		
130	135	140
Thr Ala Gln Arg Glu Lys Gln Glu Ile Leu Ala Phe Glu Gly His Leu		
145	150	155
Ala Ala Ala Ser Thr Lys Gln Thr Ile Thr Glu Ser Ser Ser Leu Leu		
165	170	175
Leu Ser Gln Leu Thr Ser Leu Asp Pro Gln Gly Pro Pro Arg Arg Pro		
180	185	190
Pro Pro His Ile Leu Asp Gln Val Lys Ser Leu Asn Gln Ser Leu Arg		
195	200	205
Leu Gly His Leu Leu Cys Arg Ser Arg Asn Pro Asp Phe Leu Leu His		
210	215	220
Ile Ile Gln Arg Gln Ala Ser Ser Gln Ser Met Pro Trp Leu Ala Asp		
225	230	235
Leu Val Gln Ser Ser Glu Gly Ser Leu Asp Val Leu Pro Val Gln Cys		
245	250	255
Leu Cys Glu Phe Leu Leu His Asp Ala Val Asp Asp Ala Ala Ser Gly		
260	265	270
Glu Glu Asp Asp Glu Gly Glu Ser Lys Glu Gln Lys Ala Lys Lys Arg		
275	280	285

Gln Arg Gln Gln Lys Gln Arg Gln Leu Leu Gly Arg Leu Gln Asp Leu
290 295 300
Leu Leu Gly Pro Lys Ala Asp Glu Gln Thr Thr Cys Glu Val Leu Asp
305 310 315 320
Tyr Phe Leu Arg Arg Leu Gly Ser Ser Gln Val Ala Ser Arg Val Leu
325 330 335
Ala Met Lys Gly Leu Ser Leu Val Leu Ser Glu Gly Ser Leu Arg Asp
340 345 350
Gly Glu Glu Lys Glu Pro Pro Met Glu Glu Asp Val Gly Asp Thr Asp
355 360 365
Val Leu Gln Gly Tyr Gln Trp Leu Leu Arg Asp Leu Pro Arg Leu Pro
370 375 380
Leu Phe Asp Ser Val Arg Ser Thr Thr Ala Leu Ala Leu Gln Gln Ala
385 390 395 400
Ile His Met Glu Thr Asp Pro His Thr Ile Ser Ala Tyr Leu Ile Tyr
405 410 415
Leu Ser Gln His Thr Pro Val Glu Glu Gln Ala Gln His Ser Asp Leu
420 425 430
Ala Leu Asp Val Ala Arg Leu Val Val Glu Arg Ser Thr Ile Met Ser
435 440 445
His Leu Phe Ser Lys Leu Ser Pro Ser Ala Ala Ser Asp Ala Val Leu
450 455 460
Ser Ala Leu Leu Ser Ile Phe Ser Arg Tyr Val Arg Arg Met Arg Gln
465 470 475 480
Ser Lys Glu Gly Glu Glu Val Tyr Ser Trp Ser Glu Ser Gln Asp Gln
485 490 495
Val Phe Leu Arg Trp Ser Ser Gly Glu Thr Ala Thr Met His Ile Leu
500 505 510
Val Val His Ala Met Val Ile Leu Leu Thr Leu Gly Pro Pro Arg Gly

515 520 525
 Glu Pro Pro Gln Ala Pro Gly Gly Ala Ala Ser Cys Gln Val Gly His
 530 535 540
 Ser Pro Asp His Thr Gln Arg Leu Pro His Pro Cys Leu Ala Ser Gly
 545 550 555 560
 Arg Glu Ala Pro Gln Pro Phe Asn Pro Val Ser Trp Leu Leu Ser
 565 570 575

<210> 3574

<211> 295

<212> PRT

<213> Homo sapiens

<400> 3574

Met Pro Ser Pro Arg Arg Ser Met Glu Gly Arg Pro Leu Gly Val Ser
 1 5 10 15
 Ala Ser Ser Ser Ser Ser Ser Pro Gly Ser Pro Ala His Gly Gly Gly
 20 25 30
 Gly Gly Gly Ser Arg Phe Glu Phe Gln Ser Leu Leu Ser Ser Arg Ala
 35 40 45
 Thr Ala Val Asp Pro Thr Cys Ala Arg Leu Arg Ala Ser Glu Ser Pro
 50 55 60
 Val His Arg Arg Gly Ser Phe Pro Leu Ala Ala Ala Gly Pro Ser Gln
 65 70 75 80
 Ser Pro Ala Pro Pro Leu Pro Glu Glu Asp Arg Met Asp Leu Asn Pro
 85 90 95
 Ser Phe Leu Gly Ile Ala Leu Arg Ser Leu Leu Ala Ile Asp Leu Trp
 100 105 110

Leu Ser Lys Lys Leu Gly Val Cys Ala Gly Glu Ser Ser Ser Trp Gly
115 120 125
Ser Val Arg Pro Leu Met Lys Leu Leu Glu Ile Ser Gly His Gly Ile
130 135 140
Pro Trp Leu Leu Gly Thr Leu Tyr Cys Leu Cys Arg Ser Asp Ser Trp
145 150 155 160
Ala Gly Arg Glu Val Leu Met Asn Leu Leu Phe Ala Leu Leu Leu Asp
165 170 175
Leu Leu Leu Val Ala Leu Ile Lys Gly Leu Val Arg Arg Arg Arg Pro
180 185 190
Ala His Asn Gln Met Asp Met Phe Val Thr Leu Ser Val Asp Lys Tyr
195 200 205
Ser Phe Pro Ser Gly His Ala Thr Arg Ala Ala Leu Met Ser Arg Phe
210 215 220
Ile Leu Asn His Leu Val Leu Ala Ile Pro Leu Arg Val Leu Val Val
225 230 235 240
Leu Trp Ala Phe Val Leu Gly Leu Ser Arg Val Met Leu Gly Arg His
245 250 255
Asn Val Thr Asp Val Ala Phe Gly Phe Phe Leu Gly Tyr Met Gln Tyr
260 265 270
Ser Ile Val Asp Tyr Cys Trp Leu Ser Pro His Asn Ala Pro Val Leu
275 280 285
Phe Leu Leu Trp Ser Gln Arg
290 295

<210> 3575

<211> 125

<212> PRT

<213> Homo sapiens

<400> 3575

Met	Leu	Leu	Glu	Pro	Gly	Arg	Gly	Cys	Cys	Ala	Leu	Ala	Ile	Leu	Leu
1				5				10					15		
Ala	Ile	Val	Asp	Ile	Gln	Ser	Gly	Glu	Thr	Gly	Asn	Tyr	Thr	Val	Thr
			20					25					30		
Gly	Leu	Lys	Gln	Arg	Gln	His	Leu	Glu	Phe	Ser	His	Asn	Glu	Gly	Thr
			35				40					45			
Leu	Ser	Ser	Gly	Phe	Leu	Gln	Glu	Lys	Val	Trp	Val	Met	Leu	Val	Thr
			50				55					60			
Ser	Leu	Val	Ala	Leu	Gln	Gly	Met	Ser	Lys	Arg	Ala	Val	Ser	Thr	Pro
			65				70					75			80
Ser	Asn	Glu	Gly	Ala	Ile	Ile	Phe	Leu	Pro	Pro	Trp	Leu	Phe	Ser	Arg
				85				90					95		
Arg	Arg	Arg	Leu	Glu	Arg	Met	Ser	Arg	Gly	Arg	Glu	Lys	Cys	Tyr	Ser
			100					105					110		
Ser	Pro	Gly	Tyr	Pro	Gln	Glu	Ser	Ser	Asn	Gln	Phe	His			
			115					120				125			

<210> 3576

<211> 596

<212> PRT

<213> Homo sapiens

<400> 3576

Met	Gly	Arg	Thr	Ala	Leu	Glu	Gln	Gln	Ser	Thr	Leu	Leu	Leu	Phe	Gln
1					5				10					15	

Gln Gly Trp Asn Ile Thr Val Asp Leu Val Ile Gly Pro Lys Gly Ile
 20 25 30
 Arg Gln Leu Thr Ser Gln Asp Ala Lys Pro Thr Cys Leu Ala Glu Phe
 35 40 45
 Lys Gln Ile Arg Ser Ile Arg Cys Leu Pro Leu Glu Glu Gly Gln Ala
 50 55 60
 Val Leu Gln Leu Gly Ile Glu Gly Ala Pro Gln Ala Leu Ser Ile Lys
 65 70 75 80
 Thr Ser Ser Leu Ala Glu Ala Glu Asn Met Ala Asp Leu Ile Asp Gly
 85 90 95
 Tyr Cys Arg Leu Gln Gly Glu His Gln Gly Ser Leu Ile Ile His Pro
 100 105 110
 Arg Lys Asp Gly Glu Lys Arg Asn Ser Leu Pro Gln Ile Pro Met Leu
 115 120 125
 Asn Leu Glu Ala Arg Arg Ser His Leu Ser Glu Ser Cys Ser Ile Glu
 130 135 140
 Ser Asp Ile Tyr Ala Glu Ile Pro Asp Glu Thr Leu Arg Arg Pro Gly
 145 150 155 160
 Gly Pro Gln Tyr Gly Ile Ala Arg Glu Asp Val Val Leu Asn Arg Ile
 165 170 175
 Leu Gly Glu Gly Phe Phe Gly Glu Val Tyr Glu Gly Val Tyr Thr Asn
 180 185 190
 His Lys Gly Glu Lys Ile Asn Val Ala Val Lys Thr Cys Lys Lys Asp
 195 200 205
 Cys Thr Leu Asp Asn Lys Glu Lys Phe Met Ser Glu Ala Val Ile Met
 210 215 220
 Lys Asn Leu Asp His Pro His Ile Val Lys Leu Ile Gly Ile Ile Glu
 225 230 235 240
 Glu Glu Pro Thr Trp Ile Ile Met Glu Leu Tyr Pro Tyr Gly Glu Leu

245 250 255
Gly His Tyr Leu Glu Arg Asn Lys Asn Ser Leu Lys Val Leu Thr Leu
260 265 270
Val Leu Tyr Ser Leu Gln Ile Cys Lys Ala Met Ala Tyr Leu Glu Ser
275 280 285
Ile Asn Cys Val His Arg Asp Ile Ala Val Arg Asn Ile Leu Val Ala
290 295 300
Ser Pro Glu Cys Val Lys Leu Gly Asp Phe Gly Leu Ser Arg Tyr Ile
305 310 315 320
Glu Asp Glu Asp Tyr Tyr Lys Ala Ser Val Thr Arg Leu Pro Ile Lys
325 330 335
Trp Met Ser Pro Glu Ser Ile Asn Phe Arg Arg Phe Thr Thr Ala Ser
340 345 350
Asp Val Trp Met Phe Ala Val Cys Met Trp Glu Ile Leu Ser Phe Gly
355 360 365
Lys Gln Pro Phe Phe Trp Leu Glu Asn Lys Asp Val Ile Gly Val Leu
370 375 380
Glu Lys Gly Asp Arg Leu Pro Lys Pro Asp Leu Cys Pro Pro Val Leu
385 390 395 400
Tyr Thr Leu Met Thr Arg Cys Trp Asp Tyr Asp Pro Ser Asp Arg Pro
405 410 415
Arg Phe Thr Glu Leu Val Cys Ser Leu Ser Asp Val Tyr Gln Met Glu
420 425 430
Lys Asp Ile Ala Met Glu Gln Glu Arg Asn Ala Arg Tyr Arg Thr Pro
435 440 445
Lys Ile Leu Glu Pro Thr Ala Phe Gln Glu Pro Pro Pro Lys Pro Ser
450 455 460
Arg Pro Lys Tyr Arg Pro Pro Pro Gln Thr Asn Leu Leu Ala Pro Lys
465 470 475 480

Leu Gln Ser Gln Glu Glu Asp Phe Ile Gln Pro Ser Ser Arg Glu Glu
 485 490 495
 Ala Gln Gln Leu Trp Glu Ala Glu Lys Val Lys Met Arg Gln Ile Leu
 500 505 510
 Asp Lys Gln Gln Lys Gln Met Val Glu Asp Tyr Gln Trp Leu Arg Gln
 515 520 525
 Glu Glu Lys Ser Leu Asp Pro Met Val Tyr Met Asn Asp Thr Ser Pro
 530 535 540
 Leu Thr Pro Glu Lys Glu Val Gly Tyr Arg Glu Cys Ser Arg Pro Ser
 545 550 555 560
 Ser Gly Gly Phe Leu Leu Ala Pro Cys Ala Glu Pro Pro Ser Leu Pro
 565 570 575
 Thr Ala Gln Gly Arg Glu Gln Arg Ser Leu Ser Ala Phe Pro Ala Ala
 580 585 590
 Ser Ala Met Ile
 595

<210> 3577

<211> 139

<212> PRT

<213> Homo sapiens

<400> 3577

Met Pro Glu Gly Pro Glu Leu His Leu Ala Ser Gln Phe Val Asn Glu
 1 5 10 15
 Ala Cys Arg Ala Leu Val Phe Gly Gly Cys Val Glu Lys Ser Ser Val
 20 25 30
 Ser Arg Asn Pro Glu Val Pro Phe Glu Ser Ser Ala Tyr Arg Ile Ser

35	40	45
Ala Ser Ala Arg Gly Lys Glu Leu Arg Leu Ile Leu Ser Pro Leu Pro		
50	55	60
Gly Ala Gln Pro Gln Gln Glu Pro Leu Ala Pro Arg Gly Ala Ala Thr		
65	70	75
Pro Cys Pro Pro Ala Leu Leu His Gly Pro Ala Trp Pro Pro Ala Arg		
85	90	95
Pro Met Phe Arg Gly His Pro Pro Val Arg Pro Leu Gly Pro Trp Gly		
100	105	110
Lys Val Ala Ala Gly Pro Arg Ala Leu Cys Leu Ala Gly Val Pro Ala		
115	120	125
Val Gln Gly Glu Cys Ala Thr Lys Pro Ser Gly		
130	135	

<210> 3578

<211> 117

<212> PRT

<213> Homo sapiens

<400> 3578

Met Pro Ser Arg Gln Leu Glu Asp Pro Gly Ala Gly Thr Pro Ser Pro		
1	5	10
Val Arg Leu His Ala Leu Ala Gly Phe Gln Gln Arg Ala Leu Cys His		
20	25	30
Ala Leu Thr Phe Pro Ser Leu Gln Arg Leu Val Tyr Ser Met Cys Ser		
35	40	45
Leu Cys Gln Glu Glu Asn Glu Asp Met Val Pro Asp Ala Leu Gln Gln		
50	55	60

Asn Pro Gly Ala Phe Arg Leu Ala Pro Ala Leu Pro Ala Arg Pro His
 65 70 75 80
 Arg Gly Leu Ser Thr Phe Pro Gly Ala Glu His Cys Leu Arg Ala Ser
 85 90 95
 Pro Lys Thr Thr Leu Ser Gly Gly Phe Phe Val Ala Val Ile Glu Arg
 100 105 110
 Val Glu Met Pro Thr
 115

<210> 3579

<211> 140

<212> PRT

<213> Homo sapiens

<400> 3579

Met Ala Glu Gln Gly Val Glu His Leu Lys Ser Val Phe Cys Gln Cys
 1 5 10 15
 Pro Ser His Gly Cys Ala Ser Gly Pro Arg His Ser Leu Phe Pro Trp
 20 25 30
 Pro Arg Met Pro Phe Leu Gln Asn Leu His Ser Leu His Phe Leu Gln
 35 40 45
 Val Leu Val Arg Tyr His Leu Ile Arg Glu Val Phe Leu Asp His Leu
 50 55 60
 Ile Tyr Asn His Thr Ser Phe Pro Ser Ser Ser His Thr Cys Trp Pro
 65 70 75 80
 Leu His Ser Thr Leu Phe Ser Phe Ser Gly Ser Cys Tyr Leu Leu Arg
 85 90 95
 Tyr Tyr Val Tyr Leu His Asn Ile Thr Phe Val Pro Gly Leu Thr Thr

100 105 110
Leu Thr Ser Gln Asn Met Ser Phe Pro Lys Ala Gly Ala Ala Leu Leu
115 120 125
Thr Ala Phe Leu Ala His Thr Gly Ser Asp Thr Leu
130 135 140

<210> 3580

<211> 322

<212> PRT

<213> Homo sapiens

<400> 3580

Met Lys Trp Lys Ala Leu Phe Thr Ala Ala Ile Leu Gln Ala Gln Leu
1 5 10 15
Pro Ile Thr Glu Ala Gln Ser Phe Gly Leu Leu Asp Pro Lys Leu Cys
20 25 30
Tyr Leu Leu Asp Gly Ile Leu Phe Ile Tyr Gly Val Ile Leu Thr Ala
35 40 45
Leu Phe Leu Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr
50 55 60
Gln Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg
65 70 75 80
Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met
85 90 95
Gly Gly Lys Pro Gln Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn
100 105 110
Val Ser Arg Gly Asp Leu Thr Phe Asp Leu Gly Lys Leu Glu Glu Gly
115 120 125

Leu Glu Glu Gly Ser Arg Gly Arg Ala Gly Gly Arg Ala Gly Gly Gly
 130 135 140
 Leu Gln Arg Lys Gly Trp Arg Lys Gly Trp Arg Arg Ala Pro Glu Glu
 145 150 155 160
 Gly Leu Glu Glu Gly Leu Glu Glu Gly Ser Gly Gly Arg Ala Gly Gly
 165 170 175
 Arg Ala Gly Gly Gly Leu Arg Arg Lys Gly Trp Arg Lys Gly Trp Arg
 180 185 190
 Arg Ala Pro Glu Glu Gly Leu Glu Glu Gly Leu Glu Glu Gly Ser Gly
 195 200 205
 Gly Arg Ala Gly Gly Arg Ala Gly Gly Gly Leu Arg Arg Arg Ala Gly
 210 215 220
 Gly Arg Ala Gly Gly Gly Leu Arg Arg Lys Gly Trp Arg Lys Gly Trp
 225 230 235 240
 Arg Arg Ala Pro Glu Glu Gly Leu Glu Glu Gly Leu Glu Glu Gly Ser
 245 250 255
 Gly Gly Arg Ala Gly Gly Arg Ala Gly Gly Gly Leu Arg Arg Lys Gly
 260 265 270
 Trp Arg Lys Gly Trp Arg Arg Ala Pro Glu Glu Gly Leu Glu Glu Gly
 275 280 285
 Phe Gly Gly Arg Ala Gly Gly Arg Ala Gly Gly Gly Leu Gln Arg Lys
 290 295 300
 Ala Val Ala Pro His Ser Val Val Phe Val Cys Pro Asp Leu Pro Phe
 305 310 315 320
 Leu Asp

<210> 3581

<211> 544

<212> PRT

<213> Homo sapiens

<400> 3581

Met Glu Glu Ile Thr Arg Thr Ile His Ile Gly Pro Ser Arg Leu Gly

1 5 10 15

His Pro Cys Phe Tyr His Gln Lys Asp Ile Lys Leu Glu Asn Leu Ile

20 25 30

Ile Lys Gln Gly Glu Gln Ile Met Leu Asn Ser Val Glu Glu Ile Asp

35 40 45

Gly Glu Ile Met Val Ser Cys Ala Val Ala Arg Asn His Gln Thr His

50 55 60

Ser Phe Asn Leu Pro Leu Ser Gln Glu Gly Glu Phe Tyr Glu Cys Glu

65 70 75 80

Asp Glu Arg Ile Tyr Thr Leu Lys Glu Ile Val Glu Trp Lys Ile Pro

85 90 95

Lys Asn Arg Thr Arg Thr Val Asn Leu Thr Asp Phe Ser Asn Lys Trp

100 105 110

Asp Ser Thr Asn Pro Phe Pro Lys Asp Phe Tyr Gly Thr Leu Ile Leu

115 120 125

Lys Pro Val Tyr Glu Ile Gln Gly Val Met Lys Phe Arg Lys Asp Ile

130 135 140

Ile Arg Ile Leu Pro Ser Leu Asp Val Glu Val Lys Asp Ile Thr Asp

145 150 155 160

Ser Tyr Asp Ala Asn Trp Phe Leu Gln Leu Leu Ser Thr Glu Asp Leu

165 170 175

Phe Glu Met Thr Ser Lys Glu Phe Pro Ile Val Thr Glu Val Ile Glu

180 185 190

Ala Pro Glu Gly Asn His Leu Pro Gln Ser Ile Leu Gln Pro Gly Lys
195 200 205

Thr Ile Val Ile His Lys Lys Tyr Gln Ala Ser Arg Ile Leu Ala Ser
210 215 220

Glu Ile Arg Ser Asn Phe Pro Lys Arg His Phe Leu Ile Pro Thr Ser
225 230 235 240

Tyr Lys Gly Lys Phe Lys Arg Arg Pro Arg Glu Phe Pro Thr Ala Tyr
245 250 255

Asp Leu Glu Ile Ala Lys Ser Glu Lys Glu Pro Leu His Val Val Ala
260 265 270

Thr Lys Ala Phe His Ser Pro His Asp Lys Leu Ser Ser Val Ser Val
275 280 285

Gly Asp Gln Phe Leu Val His Gln Ser Glu Thr Thr Glu Val Leu Cys
290 295 300

Glu Gly Ile Lys Lys Val Val Asn Val Leu Ala Cys Glu Lys Ile Leu
305 310 315 320

Lys Lys Ser Tyr Glu Ala Ala Leu Leu Pro Leu Tyr Met Glu Gly Gly
325 330 335

Phe Val Glu Val Ile His Asp Lys Lys Gln Tyr Pro Ile Ser Glu Leu
340 345 350

Cys Lys Gln Phe Arg Leu Pro Phe Asn Val Lys Val Ser Val Arg Asp
355 360 365

Leu Ser Ile Glu Glu Asp Val Leu Ala Ala Thr Pro Gly Leu Gln Leu
370 375 380

Glu Glu Asp Ile Thr Asp Ser Tyr Leu Leu Ile Ser Asp Phe Ala Asn
385 390 395 400

Pro Thr Glu Cys Trp Glu Ile Pro Val Gly Arg Leu Asn Met Thr Val
405 410 415

Gln Leu Val Ser Asn Phe Ser Arg Asp Ala Glu Pro Phe Leu Val Arg

420	425	430	
Thr Leu Val Glu Glu Ile Thr Glu Glu Gln Tyr Tyr Met Met Arg Arg			
435	440	445	
Tyr Glu Ser Ser Ala Ser His Pro Pro Pro Arg Pro Pro Lys His Pro			
450	455	460	
Ser Val Glu Glu Thr Lys Leu Thr Leu Leu Thr Leu Ala Glu Glu Arg			
465	470	475	480
Thr Val Asp Leu Pro Lys Ser Pro Lys Arg His His Val Asp Ile Thr			
485	490	495	
Lys Lys Leu His Pro Asn Gln Ala Gly Leu Asp Ser Lys Val Leu Ile			
500	505	510	
Gly Ser Gln Asn Asp Leu Val Asp Glu Glu Lys Glu Arg Ser Asn Arg			
515	520	525	
Gly Ala Thr Ala Val Ala Glu Thr Phe Lys Asn Glu Lys His Gln Lys			
530	535	540	

<210> 3582

<211> 903

<212> PRT

<213> Homo sapiens

<400> 3582

Met Asn Lys Ala Pro Gln Ser Thr Gly Pro Pro Pro Ala Pro Ser Pro			
1	5	10	15
Gly Leu Pro Gln Pro Ala Phe Pro Pro Gly Gln Thr Ala Pro Val Val			
20	25	30	
Phe Ser Thr Pro Gln Ala Thr Gln Met Asn Thr Pro Ser Gln Pro Arg			
35	40	45	

Gln Gly Arg Ser Thr Tyr Val Val Pro Thr Gln Gln Tyr Pro Val Gln
 50 55 60
 Pro Gly Ala Pro Gly Phe Tyr Pro Gly Ala Ser Pro Thr Glu Phe Gly
 65 70 75 80
 Thr Tyr Ala Gly Ala Tyr Tyr Pro Ala Gln Gly Val Gln Gln Phe Pro
 85 90 95
 Thr Gly Val Ala Pro Ala Pro Val Leu Met Asn Gln Pro Pro Gln Ile
 100 105 110
 Ala Pro Lys Arg Glu Arg Lys Thr Ile Arg Ile Arg Asp Pro Asn Gln
 115 120 125
 Gly Gly Lys Asp Ile Thr Glu Glu Ile Met Ser Gly Ala Arg Thr Ala
 130 135 140
 Ser Thr Pro Thr Pro Pro Gln Thr Gly Gly Gly Leu Glu Pro Gln Ala
 145 150 155 160
 Asn Gly Glu Thr Pro Gln Val Ala Val Ile Val Arg Pro Asp Asp Arg
 165 170 175
 Ser Gln Gly Ala Ile Ile Ala Asp Arg Pro Gly Leu Pro Gly Pro Glu
 180 185 190
 His Ser Pro Ser Glu Ser Gln Pro Ser Ser Pro Ser Pro Thr Pro Ser
 195 200 205
 Pro Ser Pro Val Leu Glu Pro Gly Ser Glu Pro Asn Leu Ala Val Leu
 210 215 220
 Ser Ile Pro Gly Asp Thr Met Thr Thr Ile Gln Met Ser Val Glu Glu
 225 230 235 240
 Ser Thr Pro Ile Ser Arg Glu Thr Gly Glu Pro Tyr Arg Leu Ser Pro
 245 250 255
 Glu Pro Thr Pro Leu Ala Glu Pro Ile Leu Glu Val Glu Val Thr Leu
 260 265 270
 Ser Lys Pro Val Pro Glu Ser Glu Phe Ser Ser Ser Pro Leu Gln Ala

275 280 285
Pro Thr Pro Leu Ala Ser His Thr Val Glu Ile His Glu Pro Asn Gly
290 295 300
Met Val Pro Ser Glu Asp Leu Glu Pro Glu Val Glu Ser Ser Pro Glu
305 310 315 320
Leu Ala Pro Pro Pro Ala Cys Pro Ser Glu Ser Pro Val Pro Ile Ala
325 330 335
Pro Thr Ala Gln Pro Glu Glu Leu Leu Asn Gly Ala Pro Ser Pro Pro
340 345 350
Ala Val Asp Leu Ser Pro Val Ser Glu Pro Glu Glu Gln Ala Lys Glu
355 360 365
Val Thr Ala Ser Val Ala Pro Pro Thr Ile Pro Ser Ala Thr Pro Ala
370 375 380
Thr Ala Pro Ser Ala Thr Ser Pro Ala Gln Glu Glu Glu Met Glu Glu
385 390 395 400
Glu Glu Glu Glu Glu Glu Gly Glu Ala Gly Glu Ala Gly Glu Ala Glu
405 410 415
Ser Glu Lys Gly Gly Glu Glu Leu Leu Pro Pro Glu Ser Thr Pro Ile
420 425 430
Pro Ala Asn Leu Ser Gln Asn Leu Glu Ala Ala Ala Ala Thr Gln Val
435 440 445
Ala Val Ser Val Pro Lys Arg Arg Arg Lys Ile Lys Glu Leu Asn Lys
450 455 460
Lys Glu Ala Val Gly Asp Leu Leu Asp Ala Phe Lys Glu Ala Asn Pro
465 470 475 480
Ala Val Pro Glu Val Glu Asn Gln Pro Pro Ala Gly Ser Asn Pro Gly
485 490 495
Pro Glu Ser Glu Gly Ser Gly Val Pro Pro Arg Pro Glu Glu Ala Asp
500 505 510

Glu Thr Trp Asp Ser Lys Glu Asp Lys Ile His Asn Ala Glu Asn Ile
515 520 525

Gln Pro Gly Glu Gln Lys Tyr Glu Tyr Lys Ser Asp Gln Trp Lys Pro
530 535 540

Leu Asn Leu Glu Glu Lys Lys Arg Tyr Asp Arg Glu Phe Leu Leu Gly
545 550 555 560

Phe Gln Phe Ile Phe Ala Ser Met Gln Lys Pro Glu Gly Leu Pro His
565 570 575

Ile Ser Asp Val Val Leu Asp Lys Ala Asn Lys Thr Pro Leu Arg Pro
580 585 590

Leu Asp Pro Thr Arg Leu Gln Gly Ile Asn Cys Gly Pro Asp Phe Thr
595 600 605

Pro Ser Phe Ala Asn Leu Gly Arg Thr Thr Leu Ser Thr Arg Gly Pro
610 615 620

Pro Arg Gly Gly Pro Gly Gly Glu Leu Pro Arg Gly Pro Ala Gly Leu
625 630 635 640

Gly Pro Arg Arg Ser Gln Gln Gly Pro Arg Lys Glu Pro Arg Lys Ile
645 650 655

Ile Ala Thr Val Leu Met Thr Glu Asp Ile Lys Leu Asn Lys Ala Glu
660 665 670

Lys Ala Trp Lys Pro Ser Ser Lys Arg Thr Ala Ala Asp Lys Asp Arg
675 680 685

Gly Glu Glu Asp Ala Asp Gly Ser Lys Thr Gln Asp Leu Phe Arg Arg
690 695 700

Val Arg Ser Ile Leu Asn Lys Leu Thr Pro Gln Met Phe Gln Gln Leu
705 710 715 720

Met Lys Gln Val Thr Gln Leu Ala Ile Asp Thr Glu Glu Arg Leu Lys
725 730 735

Gly Val Ile Asp Leu Ile Phe Glu Lys Ala Ile Ser Glu Pro Asn Phe

740 745 750
Ser Val Ala Tyr Ala Asn Met Cys Arg Cys Leu Met Ala Leu Lys Val
755 760 765
Pro Thr Thr Glu Lys Pro Thr Val Thr Val Asn Phe Arg Lys Leu Leu
770 775 780
Leu Asn Arg Cys Gln Lys Glu Phe Glu Lys Asp Lys Asp Asp Asp Glu
785 790 795 800
Val Phe Glu Lys Lys Gln Lys Glu Met Asp Glu Ala Ala Thr Ala Glu
805 810 815
Glu Arg Gly Arg Leu Lys Glu Glu Leu Glu Glu Ala Arg Asp Ile Ala
820 825 830
Arg Arg Arg Ser Leu Gly Asn Ile Lys Phe Ile Gly Glu Leu Phe Lys
835 840 845
Leu Lys Met Leu Thr Glu Ala Ile Met His Asp Cys Val Val Lys Leu
850 855 860
Leu Glu Asn His Asp Glu Glu Ser Leu Glu Cys Leu Cys Arg Leu Leu
865 870 875 880
Thr Thr Ile Gly Lys Asp Leu Asp Phe Glu Lys Ala Lys Pro Arg Met
885 890 895
Asp Gln Tyr Phe Asn Gln Met
900

<210> 3583

<211> 164

<212> PRT

<213> Homo sapiens

<400> 3583

Met Val Glu Val Pro Arg His His Pro Cys Cys Leu Leu Met Ala Leu
 1 5 10 15
 Gly Trp Val Leu Pro Ser Trp Gly Ser Leu Gly Ala Val Gly Ser Pro
 20 25 30
 Glu Ser Ala Trp Arg Arg Trp Arg Phe Gly Glu Phe Gly Arg Gln Ala
 35 40 45
 Gly Val Ser Cys Arg Gly Pro Gly Lys Gly Asp Cys Asp Ser Gly Ser
 50 55 60
 Ser Arg Ala Lys Ala Leu Gly Leu Glu Gly Leu Gly Gln Pro Gln Gly
 65 70 75 80
 Leu Thr Pro Ala His Cys Thr Leu Arg Phe Gln Leu Pro Gly Ala Gly
 85 90 95
 Glu Met Ala Glu Pro Gly Pro Trp Met Ile Ser Val Pro Val Pro Leu
 100 105 110
 Phe Pro Gly Ser Ala Ala Glu Pro Ser Thr Ala Ser Ser Ser Pro Thr
 115 120 125
 Trp Arg Asn Thr Gly Pro Asn Arg Gly Cys Gly Ser Lys Thr His Thr
 130 135 140
 Arg Thr Arg Pro Gly Ala Ala Leu Cys Ser Ser Gly Pro Trp Leu Gly
 145 150 155 160
 Leu Val Val Met

<210> 3584

<211> 133

<212> PRT

<213> Homo sapiens

<400> 3584

Met Thr Ser Ser Thr Ser Thr Ala Met Ile Thr Ile Tyr Met Pro Ala

1 5 10 15

Ser Leu Arg Phe Ile Thr Ala Asn Pro Ile Ser Ser Leu Glu Leu Gln

20 25 30

Met Cys Gly Tyr Leu Ser Leu Tyr Ile Pro Asp Pro Gln Asn Ser Ala

35 40 45

Lys Met Ser Tyr Val Pro Phe Gln Thr Cys Ser Phe Ser His Ile Ala

50 55 60

Tyr Leu Gly Lys Trp Asn Pro His Pro Thr Gly Val Leu Ala Ser Phe

65 70 75 80

Leu Ile Pro Pro Ala Pro Ala Ser His Ser His Ser Gln Ile Leu Pro

85 90 95

Gly Ile Pro Cys Arg Glu Leu Ala Asn Leu Ser Thr Ser Leu Leu Pro

100 105 110

Leu Leu Pro Val Pro Ser Phe Gly Leu Leu Ser Thr Leu Ile Gln Arg

115 120 125

Ile Thr Lys Val Ser

130

<210> 3585

<211> 129

<212> PRT

<213> Homo sapiens

<400> 3585

Met Pro Ser Ser Leu Gly Leu Cys Ile Cys Ile Ser Phe Ser Phe Leu

1 5 10 15

Leu Tyr Thr Ala Ala Phe Gln Phe Phe Leu Val Phe Leu Ser Leu Pro
20 25 30
Pro Ala Ser Ser Trp Ser Leu Ser Cys Ser Val Ile Leu Leu Ser Leu
35 40 45
Ile Ser Cys Pro Gln Val Ser Val Gly Leu Cys Ser Pro Ala Ala His
50 55 60
Ser Cys His Gly Thr His His Cys Phe Gln Leu Phe Pro Thr Ser Tyr
65 70 75 80
Pro Asn Tyr Ala Ile Val Pro Ile Ser Thr Leu Ile Gln Ala Arg Gln
85 90 95
Lys Ala Val Pro Trp Ala Ala Pro His Lys Pro Glu His Cys Arg Ser
100 105 110
Val Ser Phe Phe Thr Leu Cys Pro Glu Gly Arg Ala Arg Val Val Phe
115 120 125
Phe

<210> 3586

<211> 425

<212> PRT

<213> Homo sapiens

<400> 3586

Met Leu Lys His Gln Cys Ser Cys Gly Asp Asn Ser Arg His Pro Glu
1 5 10 15
His Ala Gly Arg Ile Gln Ser Ile Trp Ser Arg Leu Gln Glu Arg Gly
20 25 30
Leu Arg Ser Gln Cys Glu Cys Leu Arg Gly Arg Lys Ala Ser Leu Glu

35	40	45
Glu Leu Gln Ser Val His Ser Glu Arg His Val Leu Leu Tyr Gly Thr		
50	55	60
Asn Pro Leu Ser Arg Leu Lys Leu Asp Asn Gly Lys Leu Ala Gly Leu		
65	70	75
80		
Leu Ala Gln Arg Met Phe Val Met Leu Pro Cys Gly Gly Val Gly Val		
85	90	95
Asp Thr Asp Thr Ile Trp Asn Glu Leu His Ser Ser Asn Ala Ala Arg		
100	105	110
Trp Ala Ala Gly Ser Val Thr Asp Leu Ala Phe Lys Val Ala Ser Arg		
115	120	125
Glu Leu Lys Asn Gly Phe Ala Val Val Arg Pro Pro Gly His His Ala		
130	135	140
Asp His Ser Thr Ala Met Gly Phe Cys Phe Phe Asn Ser Val Ala Ile		
145	150	155
160		
Ala Cys Arg Gln Leu Gln Gln Gln Ser Lys Ala Ser Lys Ile Leu Ile		
165	170	175
Val Asp Trp Asp Val His His Gly Asn Gly Thr Gln Gln Thr Phe Tyr		
180	185	190
Gln Asp Pro Ser Val Leu Tyr Ile Ser Leu His Arg His Asp Asp Gly		
195	200	205
Asn Phe Phe Pro Gly Ser Gly Ala Val Asp Glu Val Gly Ala Gly Ser		
210	215	220
Gly Glu Gly Phe Asn Val Asn Val Ala Trp Ala Gly Gly Leu Asp Pro		
225	230	235
240		
Pro Met Gly Asp Pro Glu Tyr Leu Ala Ala Phe Arg Ile Val Val Met		
245	250	255
Pro Ile Ala Arg Glu Phe Ser Pro Asp Leu Val Leu Val Ser Ala Gly		
260	265	270

Phe Asp Ala Ala Glu Gly His Pro Ala Pro Leu Gly Gly Tyr His Val
 275 280 285
 Ser Ala Lys Cys Phe Gly Tyr Met Thr Gln Gln Leu Met Asn Leu Ala
 290 295 300
 Gly Gly Ala Val Val Leu Ala Leu Glu Gly Gly His Asp Leu Thr Ala
 305 310 315 320
 Ile Cys Asp Ala Ser Glu Ala Cys Val Ala Ala Leu Leu Gly Asn Arg
 325 330 335
 Val Asp Pro Leu Ser Glu Glu Gly Trp Lys Gln Lys Pro Asn Leu Asn
 340 345 350
 Ala Ile Arg Ser Leu Glu Ala Val Ile Arg Val His Ser Lys Tyr Trp
 355 360 365
 Gly Cys Met Gln Arg Leu Ala Ser Cys Pro Asp Ser Trp Val Pro Arg
 370 375 380
 Val Pro Gly Ala Asp Lys Glu Glu Val Glu Ala Val Thr Ala Leu Ala
 385 390 395 400
 Ser Leu Ser Val Gly Ile Leu Ala Glu Asp Arg Pro Ser Glu Gln Leu
 405 410 415
 Val Glu Glu Glu Glu Pro Met Asn Leu
 420 425

<210> 3587

<211> 130

<212> PRT

<213> Homo sapiens

<400> 3587

Met Ser Pro Thr Leu His Ser Pro Gln Arg Ser Ser Cys Ser Gly Gly

1	5	10	15
Leu Ser Gln Ala Leu Gly Ala Asp Pro Trp Glu Gly Leu Phe Leu Tyr			
20	25	30	
Lys Ala Val Thr Leu Trp Gly Gln Gly Thr Ala Gly Ala Asn Val Leu			
35	40	45	
Thr Phe Gly Ala Gly Ser Arg Leu Thr Val Leu Gly Glu Phe Ser Arg			
50	55	60	
Asp His Pro Gly Gly Gly Ile Gln Val Glu Gly Gly Gly Cys Phe Ala			
65	70	75	80
Ala Pro Gly Pro Ala Leu Cys Trp Glu Thr Trp Ala Gly Ser Pro Gly			
85	90	95	
Trp Ala Gly Ala Arg Gly Ala Leu Glu Val Cys Met Arg Asp Cys Thr			
100	105	110	
Ser Val Leu Leu Arg Ala Val Leu Arg Ala Gly His Gln Ala His Gly			
115	120	125	
His Arg			
130			

<210> 3588

<211> 110

<212> PRT

<213> Homo sapiens

<400> 3588

Met Ala Ser Ala His Leu Asp Arg Ile Leu Leu Val Ser Cys Pro Leu

1	5	10	15
Pro Glu Ser Gln Leu Met Gln Asp Pro Ser Gln Ser Ser Glu Thr Lys			
20	25	30	

Gln Thr Thr Val Thr Thr Ser Ser Leu Met Ala His Asn Thr Leu Ile
 35 40 45
 Val Leu Leu Tyr Lys Ser Ala Tyr Val Tyr Lys Ser Ala Asn Val His
 50 55 60
 Leu Ser Pro Met Leu Leu Cys Val Tyr Leu Pro Pro Ser Ser Leu Val
 65 70 75 80
 Ser Phe Leu Arg Ala Gly Thr Gly Phe Tyr Lys Ser Leu Pro Pro Pro
 85 90 95
 Pro Ser Met Thr Glu Val Phe Ala His Asn Arg Ile Ala Thr
 100 105 110

<210> 3589

<211> 263

<212> PRT

<213> Homo sapiens

<400> 3589

Met Leu Gly Thr Met Ala Leu Ala Ala Cys Gln Phe Met Glu Glu Pro
 1 5 10 15
 Gly Met Glu Val Gln Val Arg Glu Ser Lys His Pro Tyr Asn Asn Asn
 20 25 30
 Thr Asn Phe Glu Asp Lys Val His Ile Pro Gly Ala Ile Tyr Leu Ser
 35 40 45
 Ile Lys Phe Asp Ser Gln Cys Asn Thr Glu Glu Gly Cys Asp Glu Leu
 50 55 60
 Ala Met Ser Ser Ser Ser Asp Phe Gln Gln Asp Arg His Ser Phe Ser
 65 70 75 80
 Gly Ser Gln Gln Lys Trp Lys Asp Phe Glu Leu Pro Gly Asp Thr Leu

	85		90		95
Tyr Tyr Arg Phe Thr Ser Asp Met Ser Asn Thr Glu Trp Gly Tyr Arg					
	100		105		110
Phe Thr Val Thr Ala Gly His Leu Gly Arg Phe Gln Thr Gly Phe Glu					
	115		120		125
Ile Leu Lys Gln Met Leu Ser Glu Glu Arg Val Val Pro His Leu Pro					
	130		135		140
Leu Ala Lys Ile Trp Glu Trp Leu Val Gly Val Ala Cys Arg Gln Thr					
145		150		155	160
Gly His Gln Arg Leu Lys Ala Ile His Leu Leu Leu Arg Ile Val Arg					
	165		170		175
Cys Cys Gly His Ser Asp Leu Cys Asp Leu Ala Leu Leu Lys Pro Leu					
	180		185		190
Trp Gln Leu Phe Thr His Met Glu Tyr Gly Leu Phe Glu Asp Val Thr					
	195		200		205
Gln Pro Gly Ile Leu Leu Pro Leu His Arg Ala Leu Thr Glu Leu Phe					
	210		215		220
Phe Val Thr Glu Asn Arg Ala Gln Val Arg Pro Glu Val Trp Ala Gly					
225		230		235	240
Ser Pro Val Pro Pro Cys Ala Phe Ala Pro Ser Ala Thr Gln Gly Arg					
	245		250		255
Ser Cys Cys Leu Ile Arg Ala					
	260				

<210> 3590

<211> 1090

<212> PRT

<213> Homo sapiens

<400> 3590

Met Glu Gln Pro Lys Gly Val Asp Trp Thr Val Ile Ile Leu Thr Cys
 1 5 10 15
 Gln Tyr Lys Asp Ser Val Gln Val Phe Gln Arg Glu Leu Glu Val Arg
 20 25 30
 Gln Lys Arg Glu Gln Ile Pro Ala Gly Thr Leu Leu Leu Ala Val Glu
 35 40 45
 Asp Pro Glu Lys Arg Val Gly Ser Gly Gly Ala Thr Leu Asn Ala Leu
 50 55 60
 Leu Val Ala Ala Glu His Leu Ser Ala Arg Ala Gly Phe Thr Trp Ile
 65 70 75 80
 Cys Val Gly Val Ser Leu Trp Ile Arg Gly Cys His Pro Pro Gly Arg
 85 90 95
 Leu Pro Glu Ala Ser Val His Arg Ala Phe Pro Leu Leu Gln Val Val
 100 105 110
 Thr Ser Asp Val Leu His Ser Ala Trp Ile Leu Ile Leu His Met Gly
 115 120 125
 Arg Asp Phe Pro Phe Asp Asp Cys Gly Arg Ala Phe Thr Cys Leu Pro
 130 135 140
 Val Glu Asn Pro Glu Ala Pro Val Glu Ala Leu Val Cys Asn Leu Asp
 145 150 155 160
 Cys Leu Leu Asp Ile Met Thr Tyr Arg Leu Gly Pro Gly Ser Pro Pro
 165 170 175
 Gly Val Trp Val Cys Ser Thr Asp Met Leu Leu Ser Val Pro Ala Asn
 180 185 190
 Pro Gly Ile Ser Trp Asp Ser Phe Arg Gly Ala Arg Val Ile Ala Leu
 195 200 205
 Pro Gly Ser Pro Ala Tyr Ala Gln Asn His Gly Val Tyr Leu Thr Asp

210 215 220
Pro Gln Gly Leu Val Leu Asp Ile Tyr Tyr Gln Gly Thr Glu Ala Glu
225 230 235 240
Ile Gln Arg Cys Val Arg Pro Asp Gly Arg Val Pro Leu Val Ser Gly
245 250 255
Val Val Phe Phe Ser Val Glu Thr Ala Glu Arg Leu Leu Ala Thr His
260 265 270
Val Ser Pro Pro Leu Asp Ala Cys Thr Tyr Leu Gly Leu Asp Ser Gly
275 280 285
Ala Arg Pro Val Gln Leu Ser Leu Phe Phe Asp Ile Leu His Cys Met
290 295 300
Ala Glu Asn Val Thr Arg Glu Asp Phe Leu Val Gly Arg Pro Pro Glu
305 310 315 320
Leu Gly Gln Gly Asp Ala Asp Val Ala Gly Tyr Leu Gln Ser Ala Arg
325 330 335
Ala Gln Leu Trp Arg Glu Leu Arg Asp Gln Pro Leu Thr Met Ala Tyr
340 345 350
Val Ser Ser Gly Ser Tyr Ser Tyr Met Thr Ser Ser Ala Ser Glu Phe
355 360 365
Leu Leu Ser Leu Thr Leu Pro Gly Ala Pro Gly Ala Gln Ile Val His
370 375 380
Ser Gln Val Glu Glu Gln Gln Leu Leu Ala Ala Gly Ser Ser Val Val
385 390 395 400
Ser Cys Leu Leu Glu Gly Pro Val Gln Leu Gly Pro Gly Ser Val Leu
405 410 415
Gln His Cys His Leu Gln Gly Pro Ile His Ile Gly Ala Gly Cys Leu
420 425 430
Val Thr Gly Leu Asp Thr Ala His Ser Lys Ala Leu His Gly Arg Glu
435 440 445

Leu Arg Asp Leu Val Leu Gln Gly His His Thr Arg Leu His Gly Ser
450 455 460

Pro Gly His Ala Phe Thr Leu Val Gly Arg Leu Asp Ser Trp Glu Arg
465 470 475 480

Gln Gly Ala Gly Thr Tyr Leu Asn Val Pro Trp Ser Glu Phe Phe Lys
485 490 495

Arg Thr Gly Val Arg Ala Trp Asp Leu Trp Asp Pro Glu Thr Leu Pro
500 505 510

Ala Glu Tyr Cys Leu Pro Ser Ala Arg Leu Phe Pro Val Leu His Pro
515 520 525

Ser Arg Glu Leu Gly Pro Gln Asp Leu Leu Trp Met Leu Asp His Gln
530 535 540

Glu Asp Gly Gly Glu Ala Leu Arg Ala Trp Arg Ala Ser Trp Arg Leu
545 550 555 560

Ser Trp Glu Gln Leu Gln Pro Cys Leu Asp Arg Ala Ala Thr Leu Ala
565 570 575

Ser Arg Arg Asp Leu Phe Phe Arg Gln Ala Leu His Lys Ala Arg His
580 585 590

Val Leu Glu Ala Arg Gln Asp Leu Ser Leu Arg Pro Leu Ile Trp Ala
595 600 605

Ala Val Arg Glu Gly Cys Pro Gly Pro Leu Leu Ala Thr Leu Asp Gln
610 615 620

Val Ala Ala Gly Ala Gly Asp Pro Gly Val Ala Ala Arg Ala Leu Ala
625 630 635 640

Cys Val Ala Asp Val Leu Gly Cys Met Ala Glu Gly Arg Gly Gly Leu
645 650 655

Arg Ser Gly Pro Ala Ala Asn Pro Glu Trp Met Arg Pro Phe Ser Tyr
660 665 670

Leu Glu Cys Gly Asp Leu Ala Ala Gly Val Glu Ala Leu Ala Gln Glu

675	680	685
Arg Asp Lys Trp Leu Ser Arg Pro Ala Leu Leu Val Arg Ala Ala Arg		
690	695	700
His Tyr Glu Gly Ala Gly Gln Ile Leu Ile Arg Gln Ala Val Met Ser		
705	710	715
Ala Gln His Phe Val Ser Thr Glu Gln Val Glu Leu Pro Gly Pro Gly		
725	730	735
Gln Trp Val Val Ala Glu Cys Pro Ala Arg Val Asp Phe Ser Gly Gly		
740	745	750
Trp Ser Asp Thr Pro Pro Leu Ala Tyr Glu Leu Gly Gly Ala Val Leu		
755	760	765
Gly Leu Ala Val Arg Val Asp Gly Arg Arg Pro Ile Gly Ala Arg Ala		
770	775	780
Arg Arg Ile Pro Glu Pro Glu Leu Trp Leu Ala Val Gly Pro Arg Gln		
785	790	795
Asp Glu Met Thr Val Lys Ile Val Cys Arg Cys Leu Ala Asp Leu Arg		
805	810	815
Asp Tyr Cys Gln Pro His Ala Pro Gly Ala Leu Leu Lys Ala Ala Phe		
820	825	830
Ile Cys Ala Gly Ile Val His Val His Ser Glu Leu Gln Leu Ser Thr		
835	840	845
Ser Ser Ile Leu Ala Gly Thr Ala Leu Ala Ala Leu Gln Arg Ala Ala		
850	855	860
Gly Arg Val Val Gly Thr Glu Ala Leu Ile His Ala Val Leu His Leu		
865	870	875
Glu Gln Val Leu Thr Thr Gly Gly Gly Trp Gln Asp Gln Val Gly Gly		
885	890	895
Leu Met Pro Gly Ile Lys Val Gly Arg Ser Arg Ala Gln Leu Pro Leu		
900	905	910

Lys Val Glu Val Glu Glu Val Thr Val Pro Glu Gly Phe Val Gln Lys
915 920 925
Leu Asn Asp His Leu Leu Leu Val Tyr Thr Gly Lys Thr Arg Leu Ala
930 935 940
Arg Asn Leu Leu Gln Asp Val Leu Arg Ser Trp Tyr Ala Arg Leu Pro
945 950 955 960
Ala Val Val Gln Asn Ala His Ser Leu Val Arg Gln Thr Glu Glu Cys
965 970 975
Ala Glu Gly Phe Arg Gln Gly Ser Leu Pro Leu Leu Gly Gln Cys Leu
980 985 990
Thr Ser Tyr Trp Glu Gln Lys Lys Leu Met Ala Pro Gly Cys Glu Pro
995 1000 1005
Leu Thr Val Arg Arg Met Met Asp Val Leu Ala Pro His Val His Gly
1010 1015 1020
Gln Ser Leu Ala Gly Ala Gly Gly Gly Gly Phe Leu Tyr Leu Leu Thr
1025 1030 1035 1040
Lys Glu Pro Gln Gln Lys Glu Ala Leu Glu Ala Val Leu Ala Lys Thr
1045 1050 1055
Glu Gly Leu Gly Asn Tyr Ser Ile His Leu Val Glu Val Asp Thr Gln
1060 1065 1070
Gly Leu Ser Leu Lys Leu Leu Gly Thr Glu Ala Ser Thr Cys Cys Pro
1075 1080 1085
Phe Pro
1090

<210> 3591

<211> 146

<212> PRT

<213> Homo sapiens

<400> 3591

Met Phe Phe Asn Val Val His Thr Tyr Phe Phe Phe Phe Phe Phe Thr

1 5 10 15

Leu Leu Ser Arg Leu Glu Cys Ser Gly Val Ile Ser Ala Tyr Cys Asn

20 25 30

Leu Cys Leu Pro Gly Ser Ser Asn Ser Pro Val Ser Ala Ser Arg Val

35 40 45

Ala Gly Ile Thr Gly Ala Arg His His Ala Trp Leu Val Phe Ile Phe

50 55 60

Leu Val Glu Val Arg Phe Gln His Ile Gly Gln Ala Gly Leu Glu Leu

65 70 75 80

Leu Thr Ser Gly Asp Pro Pro Thr Ser Ala Ser Gln Ser Ala Trp Ile

85 90 95

Thr Gly Val Ser His His Ala Gln Leu Lys His Thr Phe Leu Cys Cys

100 105 110

Arg Phe Ser Ser Lys Asp Ser Lys Phe Tyr Asn Ser Arg Asn His Ile

115 120 125

Pro Ser Thr Tyr His Ser Leu Ala Tyr Met Gly Arg Gln Leu Phe Met

130 135 140

Asp Glu

145

<210> 3592

<211> 113

<212> PRT

<213> Homo sapiens

<400> 3592

Met Gln Lys Ala Asp Gly Ser Trp Arg Met Thr Val Asp Tyr Cys Lys
 1 5 10 15
 Pro Asn Gln Val Val Thr Ala Ile Ala Ala Ala Ile Pro Asp Val Val
 20 25 30
 Ser Leu Leu Glu Gln Ile Asn Thr Ser Pro Asp Thr Trp Tyr Ala Ala
 35 40 45
 Ile Asp Leu Ala Asn Ala Leu Phe Ser Ile Pro Val His Lys Val His
 50 55 60
 Gln Lys Gln Phe Ala Phe Ser Phe Leu Phe Tyr Leu Arg Gly Ile Ser
 65 70 75 80
 Thr Leu Trp Leu Cys Val Ile Met Leu Phe Gly Glu Asn Leu Ile Ala
 85 90 95
 Phe His Phe His Glu Ile Pro His Trp Ser Ile Thr Leu Met Thr Leu
 100 105 110
 Cys

<210> 3593

<211> 141

<212> PRT

<213> Homo sapiens

<400> 3593

Met Ala Ser Gln Ser Gly Ser Ser Leu Gly Leu Leu Ala Trp Phe Leu
 1 5 10 15
 Leu Leu Gln Pro Trp Leu Glu Glu Ala Arg Ala Gly Arg Val Gly Ala

20	25	30
Gln Gly Gly Val Ala Leu Leu Phe Pro Ser Ala Leu Pro Ser Gly Pro		
35	40	45
Gly Gly Gln Asp Pro Gly Ala Ser Gly Trp Glu Pro Pro Pro Val Gly		
50	55	60
Ala Pro Gly Ser Pro Ala Ala Pro Gln Ser Arg Gly Asn Ala Val Arg		
65	70	75
Pro Ala Ser Val Leu Leu Pro Ser Ala Cys Gly Gln Arg Thr Ser Arg		
85	90	95
Ile Thr Gly Gly Leu Pro Ala Pro Asp Arg Lys Trp Pro Trp Gln Val		
100	105	110
Ser Leu Gln Thr Ser Asn Arg His Ile Cys Gly Gly Ser Leu Ile Ala		
115	120	125
Arg His Trp Val Leu Thr Ala Ala His Cys Ile Ser Gly		
130	135	140

<210> 3594

<211> 334

<212> PRT

<213> Homo sapiens

<400> 3594

Met Ser Asp Pro Gln Thr Glu Glu Leu Lys Val Lys Phe Tyr Arg Asp		
1	5	10
Asn Gln Gly His Leu Lys Gly Asp Arg Leu Cys Asp His Trp Lys Arg		
20	25	30
Glu Ala Val Asp Leu Ala Phe Met His Leu Asp Glu Asp Asp Thr Gly		
35	40	45

Asn Cys Thr Leu Gln Val Glu Val Ala Lys Tyr Gln Arg Asn Gly Lys
 50 55 60
 Tyr Glu Ala Ser Gly Arg Lys Cys Ala Asn His Arg Lys Ala Pro Ser
 65 70 75 80
 Leu Arg Gln Lys Arg Pro Arg Arg Ser Pro Ser Lys Arg Arg Asp Thr
 85 90 95
 Ser Glu Leu Ser Ser Ser Asn Thr Phe His Pro Val Asp Phe Glu Asp
 100 105 110
 Gly Gln Arg Arg Pro Ser Arg Arg Val Lys Phe Gly Pro Thr Arg Arg
 115 120 125
 Leu Ile Val Phe Asp Arg His Pro Ala Gly Glu Pro Val Ser Trp Arg
 130 135 140
 Asn Ala Gly Ala Ala Ala His Cys Ile Gln Thr Phe Asp Gly Leu Ile
 145 150 155 160
 Pro Ser Pro Lys Ala Gly Val Gln Trp Cys Asp Leu Ser Ser Leu Gln
 165 170 175
 Pro Leu Pro Pro Ser Ser Ser Asp Ser Leu Thr Ser Ala Ser Gln Val
 180 185 190
 Pro Gly Thr Ala Asp Val Cys His His Thr Trp Leu Ile Phe Phe Phe
 195 200 205
 Phe Tyr Arg Val Gly Val Ser Pro Cys Cys Pro Gly Trp Pro Gln Thr
 210 215 220
 Ala Glu Leu Lys Gln Ser Ala His Leu Ser Leu Gln Lys Cys Trp Asp
 225 230 235 240
 Ser Arg Trp Glu Pro Ser Arg Leu Ala Ile Phe Lys Lys Ser Leu Ala
 245 250 255
 Leu Ser Pro Arg Leu Glu Cys Ser Gly Ala Ile Ser Ala His Cys Lys
 260 265 270
 Leu Cys Phe Pro Ala Ser Arg His Ser Pro Ala Ser Ala Ser Arg Val

275 280 285
 Ala Gly Thr Ala Gly Ala Arg His Gln Thr Arg Leu Asn Ile Cys Ile
 290 295 300
 Phe Gly Arg Asp Gly Val Ser Leu Cys Trp Pro Gly Trp Ser Arg Ser
 305 310 315 320
 Ala Thr Ser Ala Leu Trp Glu Ala Gln Gly Gly Lys Ile Thr
 325 330

<210> 3595

<211> 190

<212> PRT

<213> Homo sapiens

<400> 3595

Met Arg Val Ile Ser Ile Lys Asn Tyr His Pro Lys Ile Arg Ile Ile
 1 5 10 15
 Thr Gln Met Leu Gln Tyr His Asn Lys Ala His Leu Leu Asn Ile Pro
 20 25 30
 Ser Trp Asn Trp Lys Glu Gly Asp Asp Ala Ile Cys Leu Ala Glu Leu
 35 40 45
 Lys Leu Gly Phe Ile Ala Gln Ser Cys Leu Ala Gln Gly Leu Ser Thr
 50 55 60
 Met Leu Ala Asn Leu Phe Ser Met Arg Ser Phe Ile Lys Ile Glu Glu
 65 70 75 80
 Asp Thr Trp Gln Lys Tyr Tyr Leu Glu Gly Val Ser Asn Glu Met Tyr
 85 90 95
 Thr Glu Tyr Leu Ser Ser Ala Phe Val Gly Leu Ser Phe Pro Thr Val
 100 105 110

Cys Glu Leu Cys Phe Val Lys Leu Lys Leu Leu Met Ile Ala Ile Glu
 115 120 125
 Tyr Lys Ser Ala Asn Arg Glu Ser Arg Ile Leu Ile Asn Pro Gly Asn
 130 135 140
 His Leu Lys Ile Gln Glu Gly Thr Leu Gly Phe Phe Ile Ala Ser Asp
 145 150 155 160
 Ala Lys Glu Val Lys Arg Pro Pro Gln Leu Cys Leu Pro Leu Ala Ala
 165 170 175
 Gln Lys Arg Cys Phe Gln Ser Asp Lys Leu Asp Ile Phe Ile
 180 185 190

<210> 3596

<211> 398

<212> PRT

<213> Homo sapiens

<400> 3596

Met Phe Ser Glu Ser Arg Cys Ser Ser Ser Thr Gln Thr Gln Gly Arg
 1 5 10 15
 Arg Pro Arg Lys Asn Lys Asp Ala Pro Lys Lys Ile Pro Ala Ala Tyr
 20 25 30
 Gly Gly Pro Glu Asn Val Gln Ile Glu Asp Ser His Thr Ser Gln Ala
 35 40 45
 Ile Cys Leu Gln Asp Ala Pro Ser Gly Gln Gln Leu Ala Gly Leu Pro
 50 55 60
 Arg Ser Gln Gln Gln Arg His Leu Pro Phe Phe Leu Glu Lys Lys Gly
 65 70 75 80
 Glu Ser Ser Arg Lys His Arg Tyr Pro Gln Ser Met Trp Glu Pro Glu

85	90	95
Gly Lys Glu Leu Gln Leu Asp Gln Glu Glu Arg Ala Pro Trp Ile Glu		
100	105	110
Ile Phe Leu Gly Asn Ser Thr Pro Ser Thr Gln Gly Gln Gly Lys Gly		
115	120	125
Ala Met Gly Thr Gln Lys Glu Val Ile Gly Met Glu Ala Glu Val Thr		
130	135	140
Gly Val Leu Leu Val Ala Glu Gly Gln Arg Thr Thr Glu Gly Thr His		
145	150	155
160		
Lys Lys Glu Ala Glu Trp Ser His Val Gln Arg Leu Leu Met Pro Ser		
165	170	175
Pro Arg Gly Ala Val Glu Gly Ala Val Ser Gly Ser Arg Gln Gly Ser		
180	185	190
Gly Gly Ser Ser Ile Leu Gly Glu Pro Trp Val Leu Gln Gly His Ala		
195	200	205
Thr Lys Glu Asp Ser Thr Val Glu Asn Pro Gln Val Gln Thr Glu Val		
210	215	220
Thr Leu Val Ala Arg Arg Glu Glu Gln Ala Glu Val Ser Leu Gln Asp		
225	230	235
240		
Glu Ile Lys Ser Leu Arg Leu Gly Leu Arg Lys Ala Glu Glu Gln Ala		
245	250	255
Gln Arg Gln Glu Gln Leu Leu Arg Glu Gln Glu Gly Glu Leu Gln Ala		
260	265	270
Leu Arg Glu Gln Leu Ser Arg Cys Gln Glu Glu Arg Ala Glu Leu Gln		
275	280	285
Ala Gln Leu Glu Gln Lys Gln Gln Glu Ala Glu Arg Arg Asp Ala Met		
290	295	300
Tyr Gln Glu Glu Leu Gly Gly Gln Arg Asp Leu Val Gln Ala Met Lys		
305	310	315
320		

Arg Arg Val Leu Glu Leu Ile Gln Glu Lys Asp Arg Leu Trp Gln Arg
 325 330 335
 Leu Gln His Leu Ser Ser Met Ala Pro Glu Cys Cys Val Ala Cys Ser
 340 345 350
 Lys Ile Phe Gly Arg Phe Ser Arg Arg Tyr Pro Cys Arg Leu Cys Gly
 355 360 365
 Gly Leu Leu Cys His Ala Cys Ser Met Asp Tyr Lys Lys Arg Asp Arg
 370 375 380
 Cys Cys Pro Pro Cys Ala Gln Gly Arg Glu Ala Gln Val Thr
 385 390 395

<210> 3597

<211> 477

<212> PRT

<213> Homo sapiens

<400> 3597

Met Asp Trp Thr Trp Arg Phe Leu Phe Val Val Ala Ala Ala Thr Gly
 1 5 10 15
 Val Gln Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys
 20 25 30
 Pro Gly Ser Trp Val Lys Val Ser Cys Gln Ala Ser Gly Ala Asn Phe
 35 40 45
 Ala Thr Ser Ala Phe Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
 50 55 60
 Asp Trp Val Gly Thr Ile Ile Pro Leu Phe Gly Ser Pro Asn His Ala
 65 70 75 80
 Gln Arg Leu Glu Gly Arg Leu Thr Leu Ser Ala Val Lys Ser Thr Thr

	85		90		95
Thr Val Tyr Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Thr Ala Val					
100		105		110	
Tyr Tyr Cys Ala Arg Gly Thr Arg Thr Phe Arg Asn Phe Asp Ile Gly					
115		120		125	
Pro Tyr Leu Asp Ser Ser Asp Val Trp Gly Gln Gly Thr Met Val Thr					
130		135		140	
Val Ser Ala Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro					
145		150		155	160
Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val					
165		170		175	
Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala					
180		185		190	
Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly					
195		200		205	
Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly					
210		215		220	
Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys					
225		230		235	240
Ala Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys					
245		250		255	
Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu					
260		265		270	
Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu					
275		280		285	
Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys					
290		295		300	
Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys					
305		310		315	320

Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu
325 330 335
Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
340 345 350
Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys
355 360 365
Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
370 375 380
Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
385 390 395 400
Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
405 410 415
Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly
420 425 430
Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln
435 440 445
Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Gly Leu His Asn
450 455 460
His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
465 470 475

<210> 3598

<211> 122

<212> PRT

<213> Homo sapiens

<400> 3598

Met Ala Ala Arg Glu Ala Glu Arg Ser Ala Gly Pro Arg Arg Pro Glu

1	5	10	15
Ala Gly Ser Glu Leu Gln Ala Ala Pro Gly Ala Pro Gln Leu Ala Gly			
20	25	30	
Thr Gly Arg Asp Pro Ala Gly Arg Ala Asp Ala Arg Ala Arg Gln Pro			
35	40	45	
Arg Thr Pro Leu Pro Val Pro Leu Arg Ser Leu Ala Ala Leu Ile Cys			
50	55	60	
Arg Lys Ser Arg Arg Trp Pro Gly Phe Ser Ala Pro Ala Val Gly Arg			
65	70	75	80
Trp Trp Ala Ala Ala Cys Glu Gly Gly Pro Gly Pro Asp His Val Pro			
85	90	95	
Pro Val Cys Ala Arg Arg Pro Leu Leu Ala Glu Leu Gly Pro Gly Lys			
100	105	110	
Arg Asp Pro Ser Cys Ala Leu Lys Trp Ala			
115	120		

<210> 3599

<211> 171

<212> PRT

<213> Homo sapiens

<400> 3599

Met His Ser Ser Ser Ser Ser Leu His Asn Leu Gly Leu Ser Pro Pro			
1	5	10	15
Pro Pro Ser Val His Asn Leu Gly Ser Gly Ser His Leu His Glu Thr			
20	25	30	
Leu Lys Pro Leu Pro Ser Glu Gln Ser Leu Ser Pro Gly Phe Ser Thr			
35	40	45	

Ala Ala Tyr Ser Ser Ser Pro Thr Gly Ala Val Ser Ser Arg Ile Phe
50 55 60
Thr Lys Gly Pro His Pro Glu His Ser Leu Leu His Glu Ala Ala Ala
65 70 75 80
Glu His Ser Gly Gln Ser Leu Arg Thr Asn Asn Pro Pro Ile Ala Leu
85 90 95
Lys His Pro Trp Phe Pro Leu Phe Gln Ser His Pro Cys Gly Ile Leu
100 105 110
Thr Ser Trp Leu Ser His Pro Thr Gly Tyr Pro Pro Leu Asp Ser Phe
115 120 125
Asp Phe Thr Phe Cys Gly Leu Ser Ser Asn Tyr Val Asn Ser Asp Pro
130 135 140
Ser Val Arg Val Ser Cys Thr Ser Asp Ser Pro Val Gly Leu Leu Lys
145 150 155 160
Val His Val Pro Gly Ser His Pro Arg Leu Phe
165 170

<210> 3600

<211> 173

<212> PRT

<213> Homo sapiens

<400> 3600

Met Leu Gly Val Arg Ala Arg Pro Ala Ser Cys Gly Gly Arg Gly Gly
1 5 10 15
Ser Val Lys Leu Ala Leu Ala Arg Ala Ser Ser His Pro Pro Leu Pro
20 25 30
Ser Gly Glu Ser Val Tyr Pro Pro Pro Ala Cys Leu Arg His Leu Ile

<210> 3601

<211> 176

<212> PRT

<213> Homo sapiens

<400> 3601

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Ser Ala Ser Arg Val Ala Val Ile Ser Gly Thr Cys His His Ala Gln
 35 40 45
 Leu Ile Phe Val Phe Leu Val Glu Thr Gly Phe Cys Tyr Val Gly Gln
 50 55 60
 Ala Gly Leu Arg Leu Leu Thr Ser Ser Asp Pro Pro Thr Ser Ala Ser
 65 70 75 80
 Leu Ser Ala Gly Ile Ala Gly Leu Ser His Arg Ala Arg Pro Phe Cys
 85 90 95
 Leu Phe Leu Cys Val Phe Glu Thr Val Ser His Ser Val Thr Gln Asn
 100 105 110
 Gly Met Gln Trp Cys Asp His Ser Ser Leu Gln Ser Arg Pro Pro Gly
 115 120 125
 Leu Lys Arg Ser Ser Pro Leu Ser Leu Leu Ser Ser Trp Asp Tyr Arg
 130 135 140
 Gln Ala Ser Pro His Leu Ala Asn Tyr Phe Tyr Phe Phe Ile Arg Gly
 145 150 155 160
 Lys Ala Ser Leu Cys Cys Pro Gly Trp Ser Gln Thr Pro Glu Leu Lys
 165 170 175

<210> 3602

<211> 122

<212> PRT

<213> Homo sapiens

<400> 3602

Met Cys Gln Thr Leu Arg His Pro Gly Gly Gln Pro Phe Pro Leu Val
 1 5 10 15
 Gly Pro Pro Val Pro His Arg Ser Leu Arg Leu Ala Ser Phe Pro Ser

20 25 30
 Leu Arg Ala Gln Pro Ala Pro Gly Gln Leu Pro Val Pro Ala Ala Thr
 35 40 45
 Pro Leu Leu Gly His Arg Leu Met Pro Glu Asn Ser Gln Glu Ser His
 50 55 60
 Ala Met Phe Asn Glu Arg Gln Asn Val Gly Thr Arg Cys Glu Ala Val
 65 70 75 80
 Pro Gly Cys Gly Arg Glu Thr Pro Gly Cys Ala Arg Gln Gly Ala Phe
 85 90 95
 Pro Trp Thr Leu Lys Gly Thr Arg Cys Pro Gly Ala Val Arg Gly Gly
 100 105 110
 Val Leu Ile His Val Thr Gly Leu Phe Gln
 115 120

<210> 3603

<211> 445

<212> PRT

<213> Homo sapiens

<400> 3603

Met Thr Gly Ser Ser Phe Ser Leu Ala His Leu Leu Ile Ile Ser Gly
 1 5 10 15
 Leu Leu Cys Tyr Ser Ala Gly Cys Leu Ala Leu Pro Ser Leu Asp Gln
 20 25 30
 Lys Lys Arg Gly Gly His Lys Ala Cys Cys Leu Leu Thr Pro Pro Pro
 35 40 45
 Pro Pro Leu Phe Pro Pro Pro Phe Phe Arg Gly Gly Arg Ser Pro Leu
 50 55 60

Leu Ser Pro Asp Met Lys Asn Leu Met Leu Glu Leu Glu Thr Ser Gln
 65 70 75 80
 Ser Pro Cys Met Gln Gly Ser Leu Gly Ser Pro Gly Pro Pro Gly Pro
 85 90 95
 Gln Gly Pro Pro Gly Leu Pro Gly Lys Thr Gly Pro Lys Gly Glu Lys
 100 105 110
 Gly Glu Leu Gly Arg Pro Gly Arg Lys Gly Arg Pro Gly Pro Pro Gly
 115 120 125
 Val Pro Gly Met Pro Gly Pro Ile Gly Trp Pro Gly Pro Glu Gly Pro
 130 135 140
 Arg Gly Glu Lys Gly Asp Leu Gly Met Met Gly Leu Pro Gly Ser Arg
 145 150 155 160
 Gly Pro Met Gly Ser Lys Gly Tyr Pro Gly Ser Arg Gly Glu Lys Gly
 165 170 175
 Ser Arg Gly Glu Lys Gly Asp Leu Gly Pro Lys Gly Glu Lys Gly Phe
 180 185 190
 Pro Gly Phe Pro Gly Met Leu Gly Gln Lys Gly Glu Met Gly Pro Lys
 195 200 205
 Gly Glu Pro Gly Ile Ala Gly His Arg Gly Pro Thr Gly Arg Pro Gly
 210 215 220
 Lys Arg Gly Lys Gln Gly Gln Lys Gly Asp Ser Gly Val Met Gly Pro
 225 230 235 240
 Pro Gly Lys Pro Gly Pro Ser Gly Gln Pro Gly Arg Pro Gly Pro Pro
 245 250 255
 Gly Pro Pro Pro Ala Gly Gln Leu Ile Met Gly Pro Lys Gly Glu Arg
 260 265 270
 Gly Phe Pro Gly Pro Pro Gly Arg Cys Leu Cys Gly Pro Thr Met Asn
 275 280 285
 Val Asn Asn Pro Ser Tyr Gly Glu Ser Val Tyr Gly Pro Ser Ser Pro

290	295	300
Arg Val Pro Val Ile Phe Val Val Asn Asn Gln Glu Glu Leu Glu Arg		
305	310	315
Leu Asn Thr Gln Asn Ala Ile Ala Phe Arg Arg Asp Gln Arg Ser Leu		
325	330	335
Tyr Phe Lys Asp Ser Leu Gly Trp Leu Pro Ile Gln Leu Thr Pro Phe		
340	345	350
Tyr Pro Val Asp Tyr Thr Ala Asp Gln His Gly Thr Cys Gly Asp Gly		
355	360	365
Leu Leu Gln Pro Gly Glu Glu Cys Asp Asp Gly Asn Ser Asp Val Gly		
370	375	380
Asp Asp Cys Ile Arg Cys His Arg Ala Tyr Cys Gly Asp Gly His Arg		
385	390	395
His Glu Gly Val Glu Asp Cys Asp Gly Ser Asp Phe Gly Tyr Leu Thr		
405	410	415
Cys Glu Thr Tyr Leu Pro Gly Ser Tyr Gly Asp Leu Gln Cys Thr Gln		
420	425	430
Tyr Cys Tyr Ile Asp Ser Thr Pro Cys Arg Tyr Phe Thr		
435	440	445

<210> 3604

<211> 150

<212> PRT

<213> Homo sapiens

<400> 3604

Met Glu Tyr Tyr Leu Ala Ile Lys Arg Asn Glu Val Met Ser Phe Ala

1

5

10

15

Ala Thr Trp Arg Lys Leu Glu Ala Ile Ser Leu Phe Phe Phe Leu Arg
 20 25 30
 Trp Ser Leu Ala Leu Ser Pro Arg Leu Glu Cys Ser Gly Ala Ile Ser
 35 40 45
 Ala His Cys Lys Leu His Leu Leu Gly Ser Arg His Ser Pro Ala Ser
 50 55 60
 Ala Ser Arg Val Ala Gly Ala Ala Gly Ala Arg His His Ala Trp Leu
 65 70 75 80
 Ile Phe Cys Ile Phe Ser Arg Asp Gly Phe Ser Pro Cys Trp Pro Gly
 85 90 95
 Trp Ser Arg Ser Pro Gly Leu Val Ile Arg Leu Pro Arg Pro Pro Lys
 100 105 110
 Val Leu Gly Leu Arg Ala Ser Ala Thr Ala Pro Gly Leu Glu Ala Phe
 115 120 125
 Ile Leu Ser Glu Val Thr Pro Ala Trp Lys Thr Lys Asn His Met Phe
 130 135 140
 Ser Leu Arg Ser Gly Ser
 145 150

<210> 3605

<211> 221

<212> PRT

<213> Homo sapiens

<400> 3605

Met Phe Leu Glu Ile Ser Ser Tyr Tyr Asp Pro Gly Arg Leu Ile Cys
 1 5 10 15
 Asp Phe Pro Phe Asp Gly Leu Leu Glu Glu Arg Ala Leu Leu Leu Gly

20	25	30
Arg Met Gly Lys His Glu Gln Ala Leu Phe Ile Tyr Val His Ile Leu		
35	40	45
Lys Asp Thr Arg Met Ala Glu Glu Tyr Cys His Lys His Tyr Asp Arg		
50	55	60
Asn Lys Asp Gly Ser Lys Asp Val Tyr Leu Ser Leu Leu Arg Met Tyr		
65	70	75
80		
Leu Ser Pro Pro Ser Ile His Cys Leu Gly Pro Ile Lys Leu Glu Leu		
85	90	95
Leu Glu Pro Lys Ala Asn Leu Gln Ala Ala Leu Gln Val Leu Glu Leu		
100	105	110
His His Ser Lys Leu Asp Thr Thr Lys Ala Leu Asn Leu Leu Pro Ala		
115	120	125
Asn Thr Gln Ile Asn Asp Ile Arg Ile Phe Leu Glu Lys Val Leu Glu		
130	135	140
Glu Asn Ala Gln Lys Lys Arg Phe Asn Gln Val Leu Lys Asn Leu Leu		
145	150	155
160		
His Ala Glu Phe Leu Arg Val Gln Glu Glu Arg Ile Leu His Gln Gln		
165	170	175
Val Lys Cys Ile Ile Thr Glu Glu Lys Val Cys Met Val Cys Lys Lys		
180	185	190
Lys Ile Gly Asn Ser Ala Phe Ala Arg Tyr Pro Asn Gly Val Val Val		
195	200	205
His Tyr Phe Cys Ser Lys Glu Val Asn Pro Ala Asp Thr		
210	215	220

<210> 3606

<211> 103

<212> PRT

<213> Homo sapiens

<400> 3606

Met Glu Leu Asn Gln Val Leu Ile Phe Tyr Phe His Lys Lys Glu Glu
1 5 10 15
Gly Phe Leu Phe Leu Asn Phe Tyr Tyr Tyr Tyr Phe Leu Arg Arg Ser
20 25 30
Leu Ile Leu Ser Pro Arg Leu Glu Tyr Ser Arg Ala Ile Leu Ala His
35 40 45
Cys Asn Leu Cys Leu Pro Gly Leu Gly Asn Ser His Ala Ser Ala Ser
50 55 60
Gln Val Val Gly Thr Ala Arg Leu Met Pro Pro Arg Leu Ala Gly Phe
65 70 75 80
Phe Val Phe Leu Val Glu Thr Gly Phe Arg Arg Gly Gly Pro Ala Gly
85 90 95
Leu Gly Thr Pro Gly Leu Arg
100

<210> 3607

<211> 224

<212> PRT

<213> Homo sapiens

<400> 3607

Met Arg Thr Ala Lys Asp Val Asn Arg Asp Leu Tyr Arg Met Lys Ser
1 5 10 15
Arg His Leu Leu Asp Met Asp Glu Gln Ser Lys Ala Trp Thr Ile Tyr

20	25	30
Arg Pro Glu Asp Ser Gly Arg Arg Ala Lys Ser Ala Ser Ile Ile Tyr		
35	40	45
Gln His Asn Pro Ile Asn Met Ile Cys Gln Asn Gly Pro Asn Ser Trp		
50	55	60
Ile Ser Ile Ala Asn Ser Glu Ala Ile Gln Ile Gly His Gly Asn Ile		
65	70	75
Ile Thr Arg Gln Thr Val Ser Arg Glu Asp Gly Ser Ala Gly Pro Arg		
85	90	95
His Leu Pro Ser Met Ala Pro Gly Asp Ser Ser Thr Trp Gly Thr Leu		
100	105	110
Val Asp Pro Trp Gly Pro Gln Asp Ile His Met Glu Arg Ser Ile Leu		
115	120	125
Arg Arg Val Gln Leu Gly His Ser Asn Glu Met Arg Leu His Gly Val		
130	135	140
Pro Ser Glu Gly Pro Ala His Ile Pro Pro Gly Ser Pro Pro Val Phe		
145	150	155
Gln Cys Ser Gly Lys Gln Ala Ala Glu Glu Arg Gly Ala Glu Ser Gln		
165	170	175
Arg Lys Thr Leu Thr Ser Arg Ser Ala Gly Arg Asp Gln Trp Gly Arg		
180	185	190
Pro Thr Ala Gly Ser Val Glu Gln Lys Asp Ala Ser Gln Thr Ala Gln		
195	200	205
Gln His Glu Arg Ser Leu Cys His Cys Cys Arg Pro Arg Ser Phe Val		
210	215	220

<210> 3608

<211> 591

<212> PRT

<213> Homo sapiens

<400> 3608

Met Pro Ile His Asp His Asp Ser Gly Val Glu Asp Glu Asp Phe Ser
1 5 10 15
Pro Arg Pro Ile Pro Ser Pro His Pro Val Ser Gln Lys Ile Ser Lys
20 25 30
Ile Gln Pro Ser Val Pro Glu Leu Ser Leu Val Leu Asp Gly Asn Phe
35 40 45
Ile Glu Ser Asn Pro Leu Pro Thr Pro Leu Glu Met Val Asn Asn Glu
50 55 60
Asn Pro Pro Leu Ile Asn His Leu Glu His Leu Lys Pro Leu Gln Pro
65 70 75 80
Gln Leu Tyr Asp Glu Lys His Ser Pro Glu Val Glu Ala Gly Glu Pro
85 90 95
Ser Leu Arg Gly Ile Pro Asn Gln Leu Asn Gln Asp Lys Pro Ala Leu
100 105 110
Leu Arg His Cys Lys Val Arg Gln Pro Pro Ala Tyr Lys Lys Gly Asn
115 120 125
Pro His Thr Arg Asn Ser Ile Lys Pro Ser Ser His Asn Gly Pro Phe
130 135 140
His Asp Ile Phe Glu Lys Leu Gln Thr Val Ser Ala Gly Asn Val Gln
145 150 155 160
Asn Glu Glu Tyr Pro Ile Arg Pro Ser Thr Leu Asn Ser Arg Gln Ser
165 170 175
Ser Leu Ala Pro Gln Ser Gln Pro His Asp Phe Val Phe Ser Pro His
180 185 190
Asn Ser Gly Arg Pro Met Glu Leu Gln Ile Pro Thr Pro Pro Leu Pro

195	200	205
Ser Tyr Cys Ser Thr Asn Val Cys Arg Cys Cys Gln His His Ser His		
210	215	220
Ile Gln Tyr Ser Pro Leu Asn Ser Trp Gln Gly Ala Asn Thr Val Gly		
225	230	235
Ser Ile Gln Asp Val Gln Ser Glu Ala Leu Gln Lys His Ser Leu Phe		
245	250	255
His Pro Ser Gly Cys Pro Ala Leu Tyr Cys Asn Ala Phe Cys Ser Ser		
260	265	270
Ser Ser Pro Ile Ala Leu Arg Pro Gln Gly Asp Met Gly Ser Cys Ser		
275	280	285
Pro His Ser Asn Ile Glu Pro Ser Pro Val Ala Arg Pro Pro Ser His		
290	295	300
Met Asp Leu Cys Asn Pro Gln Pro Cys Thr Val Cys Met His Thr Pro		
305	310	315
Lys Thr Glu Ser Asp Asn Gly Met Met Gly Leu Ser Pro Asp Ala Tyr		
325	330	335
Arg Phe Leu Thr Glu Gln Asp Arg Gln Leu Arg Leu Leu Gln Ala Gln		
340	345	350
Ile Gln Arg Leu Leu Glu Ala Gln Ser Leu Met Pro Cys Ser Pro Lys		
355	360	365
Thr Thr Ala Val Glu Asp Thr Val Gln Ala Gly Arg Gln Met Glu Leu		
370	375	380
Val Ser Val Glu Ala Gln Ser Ser Pro Gly Leu His Met Arg Lys Gly		
385	390	395
Val Ser Ile Ala Val Ser Thr Gly Ala Ser Leu Phe Trp Asn Ala Ala		
405	410	415
Gly Glu Asp Gln Glu Pro Asp Ser Gln Met Lys Gln Asp Asp Thr Lys		
420	425	430

Ile Ser Ser Glu Asp Met Asn Phe Ser Val Asp Ile Asn Asn Glu Val

435

440

445

Thr Ser Leu Pro Gly Ser Ala Ser Ser Leu Lys Ala Val Asp Ile Pro

450

455

460

Ser Phe Glu Glu Ser Asn Ile Ala Val Glu Glu Glu Phe Asn Gln Pro

465

470

475

480

Leu Ser Val Ser Asn Ser Ser Leu Val Val Arg Lys Glu Pro Asp Val

485

490

495

Pro Val Phe Phe Pro Ser Gly Gln Leu Ala Glu Ser Val Ser Met Cys

500

505

510

Leu Gln Thr Gly Pro Thr Gly Gly Ala Ser Asn Asn Ser Glu Thr Ser

515

520

525

Glu Glu Pro Lys Ile Glu His Val Met Gln Pro Leu Leu His Gln Pro

530

535

540

Ser Asp Asn Gln Lys Ile Tyr Gln Asp Leu Leu Gly Gln Val Asn His

545

550

555

560

Leu Leu Asn Ser Ser Ser Arg Glu Thr Glu Gln Pro Ser Thr Lys Ala

565

570

575

Val Ile Ile Ser His Glu Cys Thr Arg Thr Gln Asn Val Tyr His

580

585

590

<210> 3609

<211> 157

<212> PRT

<213> Homo sapiens

<400> 3609

Met Arg Ala Asp Val Pro Gly Ser Cys Leu Gly Glu Arg Pro Ser Val

1 5 10 15
Trp Val Thr Ser Arg Leu His Thr Val Ser Leu Arg Leu Phe Leu Phe
 20 25 30
Ser His His Ser Ile Leu Met Ser Tyr Asp His Val Glu Leu Thr Phe
 35 40 45
Asn Asp Met Lys Asn Val Pro Glu Ala Phe Lys Gly Thr Lys Lys Gly
 50 55 60
Thr Val Tyr Leu Thr Pro Tyr Arg Val Ile Phe Leu Ser Lys Gly Lys
65 70 75 80
Asp Ala Met Gln Ser Phe Met Met Pro Phe Tyr Leu Met Lys Asp Cys
 85 90 95
Glu Ile Lys Gln Pro Val Phe Gly Ala Asn Tyr Ile Lys Gly Thr Val
 100 105 110
Lys Ala Glu Ala Gly Gly Gly Trp Glu Gly Ser Ala Ser Tyr Lys Leu
 115 120 125
Thr Phe Thr Ala Gly Gly Ala Ile Glu Phe Gly Gln Arg Met Leu Gln
130 135 140
Val Ala Ser Gln Gly Ile Gln Ala Pro Lys Ile Arg Gly
145 150 155

<210> 3610

<211> 189

<212> PRT

<213> Homo sapiens

<400> 3610

Met Gln Thr Ala Ser Gly Gly Pro Gln Pro Arg Leu Ser Ala Val Glu
1 5 10 15

Val Glu Ala Glu Ala Gly Arg Leu Arg Lys Ala Cys Ser Leu Leu Arg
20 25 30
Leu Arg Met Arg Glu Glu Leu Ser Ala Gly Gln Trp Val Leu Gly Leu
35 40 45
Tyr Gln Glu Glu Cys Gly Gly Pro Val Gln Gly Gly Phe Pro Asp Cys
50 55 60
His Gly Pro His Leu Leu Ser Leu Thr Leu Leu Gln Pro Pro Trp Thr
65 70 75 80
Gly Cys Arg Ser Thr Ala Ala Cys Ser Arg Trp Arg Gly Cys Arg Pro
85 90 95
Trp Trp Ala Ser Val Cys Thr Gly Cys Arg Ser Cys Val Gln Arg Trp
100 105 110
Arg Asn Ser His Gln Asp His Val Leu Trp Gly Gly Pro Pro Glu Pro
115 120 125
Arg Arg Pro Val Gly Val Glu Arg Ser Leu His Gly Ala Pro Ser Cys
130 135 140
Leu Ser Thr Pro Ala Pro Arg Ser Cys Arg Pro Trp Arg Pro Ser Ser
145 150 155 160
Cys Glu Trp Leu Cys Trp Thr Ser Arg Ser Thr Trp Lys Arg Cys Phe
165 170 175
Trp Lys Arg Arg Trp Gly Cys Asn Arg Gly Pro Gln Pro
180 185

<210> 3611

<211> 160

<212> PRT

<213> Homo sapiens

<400> 3611

Met Gly Phe Gly Ala Gly Ile His Leu Leu Lys Tyr Cys Phe Phe Pro
1 5 10 15
Ser Arg Leu Gly Pro Gly Thr Cys Leu Ser Gly Cys Ser Val Ala Pro
20 25 30
Ser Leu Leu Arg Pro Gly Arg Lys Leu Arg Ile Arg Ala Ala Ser Gly
35 40 45
Pro Ser Pro Arg Trp Cys Ser Gly Gly Gln Ala Cys Arg Pro Leu Ser
50 55 60
Trp Ala Arg Ser Gly Asp Ile Pro Glu Lys Leu Trp Gly Pro Thr Ala
65 70 75 80
Phe Cys Gly Gly Arg Lys Gly Lys Gly Trp Gly Lys Val Thr Glu Thr
85 90 95
Lys Arg Gln Thr Gln Arg Arg Thr Glu Pro Asn Gly Tyr Asp Ala Phe
100 105 110
Pro Pro Lys Arg Gly Arg Trp Asp Lys Arg Gly Trp Glu Ile Lys Ala
115 120 125
Ser Glu Ala Ser Asp Lys Lys Thr Glu Pro Pro Cys Lys Gly Arg His
130 135 140
Ser Val Lys Val Gly Gly Lys Ala Ser Ile Ile Lys Ala Leu Cys Arg
145 150 155 160

<210> 3612

<211> 105

<212> PRT

<213> Homo sapiens

<400> 3612

Met Gln Thr Leu Gly Ile Ser Leu Ser Gln Leu Ala Pro Pro Ala Gly
 1 5 10 15
 Arg Lys Phe Pro Leu Ser Ser Gln Phe Phe Leu Leu Lys Asn Glu Gly
 20 25 30
 Leu Tyr Ala Arg Phe Ser Ser Trp Pro Val Val Pro Arg Glu Gly Gln
 35 40 45
 Glu Gly Thr Leu Asp Asn Ser His Met His Leu Thr Asp Glu Glu Thr
 50 55 60
 Glu Thr Gln Ser Arg His Ile Asn Thr Ser Phe Asp Leu His Lys Ser
 65 70 75 80
 Thr Trp Arg Arg Gly Val Gly Cys Leu Cys Leu Phe Lys Phe Phe Phe
 85 90 95
 Val Lys Lys Met Lys Ile Gly Ile Leu
 100 105

<210> 3613

<211> 427

<212> PRT

<213> Homo sapiens

<400> 3613

Met Trp Thr Arg Ala Trp Cys Val Tyr Gly Arg Arg Gly Gln Lys Ser
 1 5 10 15
 Pro Thr Val Ser Leu Trp Ser Phe Leu Ile Gln Leu Tyr Pro Pro Phe
 20 25 30
 Leu Pro Leu Pro Ser Leu Glu Asp His Lys Leu Val Phe Leu Gln Gln
 35 40 45
 Gly Pro Leu Leu Leu Val Ala Met Ser Arg Thr Ser Gln Ser Ala Ala

50 55 60
Gln Leu Arg Gly Glu Leu Leu Ala Val His Ala Gln Ile Val Ser Thr
65 70 75 80
Leu Thr Arg Ala Ser Val Ala Arg Ile Phe Ala His Lys Gln Asn Tyr
85 90 95
Asp Leu Arg Arg Leu Leu Ala Gly Ser Glu Arg Thr Leu Asp Arg Leu
100 105 110
Leu Asp Ser Met Glu Gln Asp Pro Gly Ala Leu Leu Leu Gly Ala Val
115 120 125
Arg Cys Val Pro Leu Ala Arg Pro Leu Arg Asp Ala Leu Gly Ala Leu
130 135 140
Leu Arg Arg Cys Thr Ala Pro Gly Leu Ala Leu Ser Val Leu Ala Val
145 150 155 160
Gly Gly Arg Leu Ile Thr Ala Ala Gln Glu Arg Asn Val Leu Ala Glu
165 170 175
Cys Arg Leu Asp Pro Ala Asp Leu Gln Leu Leu Leu Asp Trp Val Gly
180 185 190
Ala Pro Ala Phe Ala Ala Gly Glu Ala Trp Ala Pro Val Cys Leu Pro
195 200 205
Arg Phe Asn Pro Asp Gly Phe Phe Tyr Ala Tyr Val Ala Arg Leu Asp
210 215 220
Ala Met Pro Val Cys Leu Leu Leu Leu Gly Thr Gln Arg Glu Ala Phe
225 230 235 240
His Ala Met Ala Ala Cys Arg Arg Leu Val Glu Asp Gly Met His Ala
245 250 255
Leu Gly Ala Met Arg Ala Leu Gly Glu Ala Ala Ser Phe Ser Asn Ala
260 265 270
Ser Ser Ala Ser Ala Pro Ala Tyr Ser Val Gln Ala Val Gly Ala Pro
275 280 285

Gly Leu Arg His Phe Leu Tyr Lys Pro Leu Asp Ile Pro Asp His His
 290 295 300
 Arg Gln Leu Pro Gln Phe Thr Ser Pro Glu Leu Glu Ala Pro Tyr Ser
 305 310 315 320
 Arg Glu Glu Glu Arg Gln Arg Leu Ser Asp Leu Tyr His Arg Leu His
 325 330 335
 Ala Arg Leu His Ser Thr Ser Arg Pro Leu Arg Leu Ile Tyr His Val
 340 345 350
 Ala Glu Lys Glu Thr Leu Leu Ala Trp Val Thr Ser Lys Phe Glu Leu
 355 360 365
 Tyr Thr Cys Leu Ser Pro Leu Val Thr Lys Ala Gly Ala Ile Leu Val
 370 375 380
 Val Thr Lys Leu Leu Arg Trp Val Lys Lys Glu Glu Asp Arg Leu Phe
 385 390 395 400
 Ile Arg Tyr Pro Pro Lys Tyr Ser Thr Pro Pro Ala Thr Ser Thr Asp
 405 410 415
 Gln Ala Ala His Asn Gly Leu Phe Thr Gly Leu
 420 425

<210> 3614

<211> 112

<212> PRT

<213> Homo sapiens .

<400> 3614

Met Ser Asn Asp Arg Arg Trp Ala Ile Leu Ser Gly Asn Phe Gln Thr
 1 5 10 15
 Pro Pro Pro Gly Arg Lys Glu Cys Leu Val Thr Ser Leu Arg Gly Glu

	20		25		30
Arg Cys Leu Ser Ser Pro Leu Pro Val Cys Pro Gly Arg Asp Val His					
35		40		45	
Thr Leu Arg Tyr Arg Glu Asp Ser Ser Gly Glu Lys Pro Gln Ala Ser					
50		55		60	
Leu Ser Ala Gln Gly Ile Gly Gly Pro Gln Pro Ala Pro Ser Ser Glu					
65		70		75	80
Gln His Thr Ala Phe Lys Gly Leu Tyr Cys Cys Ser Tyr Pro Ala Glu					
	85		90		95
Ala Leu His Gln Ala Ser Pro Cys Lys Ser Val Ser Pro Gln Arg Arg					
100		105		110	

<210> 3615

<211> 159

<212> PRT

<213> Homo sapiens

<400> 3615

Met Ala Thr Val Asp Pro Ala Gly Leu Ala Leu His Pro Ala Cys Pro			
1	5	10	15
Arg Val Trp Gly Pro Ser Asp Gln His Arg Pro Pro Gln Glu Gly Ser			
20	25	30	
His Leu Pro Ala Arg Arg Arg Gly Leu Ala Arg Asn Gln Ser Cys Gln			
35	40	45	
His Pro Asp Leu Gly Pro Pro Ala Ser Arg Thr Glu Lys Glu Met Ser			
50	55	60	
Ala Val Ala Ala Pro Gly Cys Ala Ala Leu Leu Gln Pro Pro Gln Gln			
65	70	75	80

Thr Ser Val Gln Ser Phe Lys Gly Met Ser Leu Ser Val Glu Ala Gly
 85 90 95
 Leu Cys Gly Glu Pro Ala Gly Lys Leu Leu Gly Glu Gly Gly Gly Gln
 100 105 110
 Arg Glu Ala Ser Leu Val Gly Lys Lys Gly Trp Glu Trp Arg Arg His
 115 120 125
 Arg Gly Arg Thr Leu Ser Glu Glu Asp Gln Gly Ala Arg Pro Phe Ser
 130 135 140
 Pro Gly Ser Cys Ala Leu Arg Gly Asp Arg Glu Gly Gly Ile Gly
 145 150 155

<210> 3616

<211> 190

<212> PRT

<213> Homo sapiens

<400> 3616

Met Lys Gly Thr Pro Ser Ser Leu Asp Thr Leu Met Trp Ile Tyr His
 1 5 10 15
 Phe His Ser Ser Thr Glu Val Ala Leu Gln Pro Pro Leu Leu Ser Ser
 20 25 30
 Leu Glu Leu Ser Val Ala Ala Ala His Glu Tyr Leu Glu Gln Arg Phe
 35 40 45
 Arg Glu Leu Lys Ser Leu Glu Pro Pro Glu Pro Lys Met Gln Gly Met
 50 55 60
 Leu Pro Ala Pro Lys Pro Thr Leu Gly Leu Val Leu Arg Glu Ala Thr
 65 70 75 80
 Ala Ser Leu Val Ser Phe Gly Thr Thr Leu Leu Glu Ile Ser Ala Leu

	85	90	95
Trp Leu Gln Gln Glu Ala Arg Arg Leu Asp Gly Ser Ala Gly Pro Ala			
100	105	110	
Pro Asp Gly Arg Asp Pro Gly Ala Ala Leu Ser Arg Val Ala Gln Ala			
115	120	125	
Ala Gly Gln Gly Val Arg Gln Ala Gly Ala Ala Val Gly Ala Ser Ala			
130	135	140	
Arg Leu Leu Val Gln Gly Ala Trp Leu Cys Leu Cys Gly Arg Gly Leu			
145	150	155	160
Gln Gly Ser Ala Ser Phe Leu Arg Gln Ser Gln Gln Gln Leu Gly Leu			
165	170	175	
Gly Ile Pro Gly Glu Pro Val Ser Ser Gly His Gly Val Ser			
180	185	190	

<210> 3617

<211> 303

<212> PRT

<213> Homo sapiens

<400> 3617

Met Tyr Met Tyr Met Cys Met Cys Val Tyr Val His Ile Tyr Thr Cys			
1	5	10	15
Ile Tyr Val Tyr Thr His Thr Tyr Ile Tyr Thr Tyr Thr Cys Met Tyr			
20	25	30	
Val Cys Ile Tyr Ser His Thr Tyr Ile His Thr His Val Tyr Val Cys			
35	40	45	
Val His Ile His Ile Cys Ile His Met Tyr Met Cys Val Tyr Thr His			
50	55	60	

Ile Tyr Ala Cys Thr Cys Val Cys Val Cys Val His Thr His Thr Tyr
 65 70 75 80
 Thr Cys Ile Cys Val Cys Val His Thr His Ile Tyr Ile His Met Cys
 85 90 95
 Val Cys Val Tyr Thr Arg Ile Tyr Thr Tyr Thr Cys Val Cys Val Cys
 100 105 110
 Thr His Ala Tyr Ile His Thr His Val Cys Val Cys Val His Thr His
 115 120 125
 Ile Tyr Ile His Met Tyr Val Cys Val Tyr Thr Arg Ile Tyr Thr Tyr
 130 135 140
 Thr Cys Val Cys Val Cys Thr His Ala Tyr Ile His Thr His Val Tyr
 145 150 155 160
 Val Cys Val His Thr His Ile Tyr Ile His Met Cys Val Cys Val Tyr
 165 170 175
 Thr Arg Ile Tyr Thr Tyr Thr Cys Met Cys Val Cys Val His Thr His
 180 185 190
 Ile Tyr Ile His Met Tyr Val Cys Val Cys Thr His Ala Tyr Ile His
 195 200 205
 Thr His Val Tyr Val Cys Val Tyr Thr Arg Ile Tyr Thr Tyr Thr Cys
 210 215 220
 Met Cys Val Cys Val Tyr Thr Arg Ile Tyr Thr Tyr Thr Tyr Val Cys
 225 230 235 240
 Val Cys Thr His Ala Tyr Ile His Thr Gln Val Tyr Val Cys Val Cys
 245 250 255
 Thr His Ala Tyr Ile His Thr His Val Cys Val Cys Val Tyr Thr Tyr
 260 265 270
 Thr Tyr Met Tyr Thr Leu Trp Cys Arg Gly Thr Ile Ile Ala His Cys
 275 280 285
 Thr Leu Glu Leu Arg Gly Leu Ser Asp Pro Ala Ala Ser Ala Ser

290

295

300

<210> 3618

<211> 152

<212> PRT

<213> Homo sapiens

<400> 3618

Met Thr His Thr Leu Pro Thr Ser Ser Gln Gly His Trp Ile Ile Ile

1

5

10

15

Leu Val Arg Pro Ile Phe Thr Ile Tyr Leu Tyr Tyr Phe Leu Arg Arg

20

25

30

Gly Leu Pro Leu Leu Pro Arg Leu Glu Cys Ser Gly Val Ile Gly Leu

35

40

45

Thr Ala Ala Leu Ala Tyr Arg Leu Lys Arg Ser Ser Cys Phe Ser Leu

50

55

60

Leu Ile Ala Gly Thr Ala Cys Gly Tyr His His Thr Trp Leu Ile Phe

65

70

75

80

Lys Ile Leu Val Glu Thr Gly Ser Pro Phe Val Ser Arg Ala Gly Leu

85

90

95

Glu Leu Leu Gly Ser Gly Ala Pro Leu Ala Ser Ala Ser Gln His Val

100

105

110

Gly Ile Thr Gly Val Ser Gln His Ile Gln Pro Pro Phe Thr Leu Leu

115

120

125

Val Leu Ile His Leu Asp Gln His Phe Ser Lys Gly Glu Gly Ser Met

130

135

140

Glu Tyr Ile Ser Thr Arg His Gln

145

150

<210> 3619

<211> 180

<212> PRT

<213> Homo sapiens

<400> 3619

Met Leu Glu Gly Val Ser Asn Glu Phe Asp His Phe Gly Ile Ser Leu

1 5 10 15

Pro Leu Lys Ile Cys Leu His Leu Gly Trp Asp Glu Gly Leu Val Glu

20 25 30

Gly Lys Val Val Arg Leu Gly Gln Gly Ile Gly Lys Ser Ile Cys Ser

35 40 45

Ser Cys Gln Leu Phe Glu Glu Ala Pro Thr Gln Met Ser Thr Val Pro

50 55 60

Ser Gly Leu Pro Leu Pro Ile Leu Met His Leu Cys Leu Leu Pro Val

65 70 75 80

Cys Met Ala His Leu Cys Pro Ala Ser Pro Cys Tyr Phe Gly Ala Thr

85 90 95

Pro Gly Ser Gly Lys Phe Cys Arg Leu Ile Thr Tyr Ser His Ser Ser

100 105 110

Pro Gln Leu Ala Ala Ser Leu Arg His Arg Gly Arg Glu Val Gly Lys

115 120 125

Asp Leu Pro Tyr Pro Gly Leu Cys Pro Leu Thr Phe His Pro Ser Phe

130 135 140

Phe Pro Pro Val Glu Gly Cys Val Ser Ser Leu Pro Gly Lys Leu Leu

145 150 155 160

Ser Pro Gln Thr Ile Phe Phe Gln Ile Leu Trp Leu Tyr Ser Lys Ser

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Val Asp Gly Gly Gly Ala Cys Ala Gly Arg Val Glu Met Leu Glu His
 145 150 155 160
 Gly Glu Trp Gly Ser Val Cys Asp Asp Thr Trp Asp Leu Glu Asp Ala
 165 170 175
 His Val Val Cys Arg Gln Leu Gly Cys Gly Trp Ala Val Gln Ala Leu
 180 185 190
 Pro Gly Leu His Phe Thr Pro Gly Arg Gly Pro Ile His Arg Asp Gln
 195 200 205
 Val Asn Cys Ser Gly Ala Glu Ala Tyr Leu Trp Asp Cys Pro Gly Leu
 210 215 220
 Pro Gly Gln His Tyr Cys Gly His Lys Glu Asp Ala Gly Ala Val Cys
 225 230 235 240
 Ser Glu His Gln Ser Trp Arg Leu Thr Gly Gly Ala Asp Arg Cys Glu
 245 250 255
 Gly Gln Val Glu Val His Phe Arg Gly Val Trp Asn Thr Val Cys Asp
 260 265 270
 Ser Glu Trp Tyr Pro Ser Glu Ala Lys Val Leu Cys Gln Ser Leu Gly
 275 280 285
 Cys Gly Thr Ala Val Glu Arg Pro Lys Gly Leu Pro His Ser Leu Ser
 290 295 300
 Gly Arg Met Tyr Tyr Ser Cys Asn Gly Glu Glu Leu Thr Leu Ser Asn
 305 310 315 320
 Cys Ser Trp Arg Phe Asn Asn Ser Asn Leu Cys Ser Gln Ser Leu Ala
 325 330 335
 Ala Arg Val Leu Cys Ser Ala Ser Arg Ser Leu His Asn Leu Ser Thr
 340 345 350
 Pro Glu Val Pro Ala Ser Val Gln Thr Val Thr Ile Glu Ser Ser Val
 355 360 365
 Thr Val Lys Ile Glu Asn Lys Glu Ser Arg Glu Leu Met Leu Leu Ile

370 375 380
Pro Ser Ile Val Leu Gly Ile Leu Leu Leu Gly Ser Leu Ile Phe Ile
385 390 395 400
Ala Phe Ile Leu Leu Arg Ile Lys Gly Lys Tyr Ala Leu Pro Val Met
405 410 415
Val Asn His Gln His Leu Pro Thr Thr Ile Pro Ala Gly Ser Asn Ser
420 425 430
Tyr Gln Pro Val Pro Ile Thr Ile Pro Lys Glu Val Phe Met Leu Pro
435 440 445
Ile Gln Val Gln Ala Pro Pro Pro Glu Asp Ser Asp Ser Gly Ser Asp
450 455 460
Ser Asp Tyr Glu His Tyr Asp Phe Ser Ala Gln Pro Pro Val Ala Leu
465 470 475 480
Thr Thr Phe Tyr Asn Ser Gln Arg His Arg Val Thr Asp Glu Glu Val
485 490 495
Gln Gln Ser Arg Phe Gln Met Pro Pro Leu Glu Glu Gly Leu Glu Glu
500 505 510
Leu His Ala Ser His Ile Pro Thr Ala Asn Pro Gly His Cys Ile Thr
515 520 525
Asp Pro Pro Ser Leu Gly Pro Gln Tyr His Pro Arg Ser Asn Ser Glu
530 535 540
Ser Ser Thr Ser Ser Gly Glu Asp Tyr Cys Asn Ser Pro Lys Ser Lys
545 550 555 560
Leu Pro Pro Trp Asn Pro Gln Val Phe Ser Ser Glu Arg Ser Ser Phe
565 570 575
Leu Glu Gln Pro Pro Asn Leu Glu Leu Ala Gly Thr Gln Pro Ala Phe
580 585 590
Ser Ala Gly Pro Pro Ala Asp Asp Ser Ser Ser Thr Ser Ser Gly Glu
595 600 605

Trp Tyr Gln Asn Phe Gln Pro Pro Pro Gln Pro Pro Ser Glu Glu Gln
 610 615 620
 Phe Gly Cys Pro Gly Ser Pro Ser Pro Gln Pro Asp Ser Thr Asp Asn
 625 630 635 640
 Asp Asp Tyr Asp Asp Ile Ser Ala Ala
 645

<210> 3621

<211> 108

<212> PRT

<213> Homo sapiens

<400> 3621

Met Leu Ile Ser Asn Cys Trp Asp Thr Ser Arg Gly Lys Phe Leu Cys
 1 5 10 15
 Gly Phe Gly Gly Leu Ile Thr His Gly Pro His Gln Asp Ala Gly Leu
 20 25 30
 Glu Arg Thr Leu Thr Val Thr Leu Pro Gly Phe Met Lys Phe Pro Arg
 35 40 45
 Leu Arg Ser Ser Ser Gly Gln Lys His Thr Val Arg Gly Gly Phe Ala
 50 55 60
 Phe Phe Thr Val Leu Ser Gln Val Arg Pro Gln Ile Cys Ala Leu Gln
 65 70 75 80
 Ile Leu His Lys Glu Pro Arg Gly Ser Pro His Ala Gln His Trp Ala
 85 90 95
 Arg Phe Pro Ala Glu Glu Thr Met Ala Gly Arg Ala
 100 105

<210> 3622

<211> 541

<212> PRT

<213> Homo sapiens

<400> 3622

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp

1 5 10 15

Val Leu Ser Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys

20 25 30

Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Asp Ser Ile

35 40 45

Ser Ser Gly Ala Tyr Tyr Trp Ser Trp Val Arg Gln Tyr Pro Gly Lys

50 55 60

Ser Leu Glu Tyr Ile Gly Tyr Ile Ser Tyr Ser Gly Asn Thr His Tyr

65 70 75 80

His Pro Ser Leu Lys Ser Arg Leu Thr Met Ser Val Asp Thr Ser Asn

85 90 95

Asn Gln Phe Ser Leu Lys Leu Thr Ser Val Thr Ala Ala Asp Thr Ala

100 105 110

Val Tyr Tyr Cys Ala Arg Ser Leu Thr Met Phe Gly Gly Val Val Ala

115 120 125

Val Pro Ser Phe Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val

130 135 140

Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys

145 150 155 160

Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys

165 170 175

Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu
180 185 190
Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu
195 200 205
Tyr Ser Leu Ser Ser Val Val Thr Val Thr Ser Ser Asn Phe Gly Thr
210 215 220
Gln Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val
225 230 235 240
Asp Lys Thr Val Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro
245 250 255
Ala Pro Pro Val Ala Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
260 265 270
Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
275 280 285
Val Asp Val Ser His Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val
290 295 300
Asp Gly Met Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
305 310 315 320
Phe Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val His Gln
325 330 335
Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly
340 345 350
Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro
355 360 365
Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
370 375 380
Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
385 390 395 400
Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr

<210> 3623

<211> 147

<212> PRT

<213> Homo sapiens

<400> 3623

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Val Phe Glu Gln His Asp Val Glu Ile Asn Lys Ile Ile Ser Thr Thr
 35 40 45
 Ala Ser Lys Thr Glu Thr Pro Ile Val Ser Lys Ser Leu Ser Ser Ser
 50 55 60
 Leu Asp Asp Thr Glu Val Lys Lys Val Met Glu Glu Cys Lys Arg Leu
 65 70 75 80
 Gln Gly Glu Val Gln Arg Leu Arg Glu Glu Asn Lys Gln Phe Lys Glu
 85 90 95
 Glu Asp Gly Leu Arg Met Arg Lys Thr Val Gln Ser Asn Ser Pro Ile
 100 105 110
 Ser Ala Leu Ala Pro Thr Gly Lys Glu Glu Gly Leu Ser Thr Arg Leu
 115 120 125
 Leu Ala Leu Val Val Leu Phe Phe Ile Val Gly Val Ile Ile Gly Lys
 130 135 140
 Ile Ala Leu
 145

<210> 3624

<211> 135

<212> PRT

<213> Homo sapiens

<400> 3624

Met Ala Ser Asp Glu Gly Lys Leu Phe Val Gly Gly Leu Ser Phe Asp
 1 5 10 15
 Thr Asn Glu Gln Ser Leu Glu Gln Val Phe Ser Lys Tyr Gly Gln Ile
 20 25 30
 Ser Glu Val Val Val Val Lys Asp Arg Glu Thr Gln Arg Ser Arg Gly

35 40 45
 Phe Gly Phe Val Thr Phe Glu Asn Ile Asp Asp Ala Lys Asp Ala Met
 50 55 60
 Met Ala Met Asn Gly Lys Val Arg Ile Arg Val Leu Ser Arg Ser Leu
 65 70 75 80
 Val Ser Arg Met Gly His Pro Pro Ala Asn Pro Ser Arg Pro Leu Ser
 85 90 95
 Pro Val Cys Arg Trp Thr Ala Asp Pro Ser Arg Pro Gly Arg Arg Arg
 100 105 110
 Gly Pro Arg Leu Trp Gly Glu Pro Val Arg Val Gln Glu Trp Gly Leu
 115 120 125
 Arg Arg Leu Gln Arg Leu Leu
 130 135

<210> 3625

<211> 105

<212> PRT

<213> Homo sapiens

<400> 3625

Met Thr Gly Ser Val Tyr Asn Lys Thr Gln Thr Phe Asp Lys Gln Gly
 1 5 10 15
 Phe His Ala Gly Thr Pro Pro Pro Phe Ser Leu Pro Ser Val Leu Gly
 20 25 30
 Ser Thr Gly Pro Leu Ala Ser Gly Ala Ala Pro Gly Tyr Ala Pro Pro
 35 40 45
 Pro Phe Leu His Ile Leu Pro Ala His Gln Gln Pro His Ser Gln Leu
 50 55 60

Leu His His His Leu Pro Gln Asp Ala Gln Ser Gly Ser Gly Gln Arg
 65 70 75 80
 Ser Gln Pro Ser Ser Leu Gln Pro Lys Ser Gln Ala Ser Lys Pro Ala
 85 90 95
 Tyr Gly Asn Ser Pro Tyr Trp Thr Asn
 100 105

<210> 3626

<211> 103

<212> PRT

<213> Homo sapiens

<400> 3626

Met Gly Ile Asp Leu Lys Cys Leu Trp Asp Lys Lys His Asp Ile Ala
 1 5 10 15
 Leu Phe Cys Ser Leu Ser Val Gln Asn Arg Lys Cys Leu Gly Met Gln
 20 25 30
 Lys Cys Lys Ser Ser Gln Leu Tyr Phe Trp Cys Val Leu Cys Val Phe
 35 40 45
 Arg Phe Ser His Ile Ser Asn Thr Val Arg Thr Leu Cys Gly Gln Ala
 50 55 60
 Gln Trp Leu Thr Leu Ile Ile Pro Ala Leu Trp Glu Ala Lys Val Gly
 65 70 75 80
 Gly Leu Leu Glu Pro Trp Glu Phe Lys Thr Ser Leu Gly Asn Ile Val
 85 90 95
 Arg Pro Cys Leu Tyr Lys Lys
 100

<210> 3627

<211> 103

<212> PRT

<213> Homo sapiens

<400> 3627

Met Ile Ser Ser Pro Gly Phe Ile Glu Gly Pro Ala Leu Ala Arg Pro

1 5 10 15

Pro Ala Ser Gly Gln His Thr Leu Ser Val Ala Arg Trp Leu Cys Thr

20 25 30

Glu Lys Ala Leu Gln Ala Ala Ser Leu Trp Thr Leu Leu Ile Arg Asn

35 40 45

Arg Pro Gly Ala Pro Gly Arg Arg Ala Asp Thr Trp Gln Gly Ile Ala

50 55 60

Gly Val Arg Gly Met Gln Gly Ser Ser Ser Cys Trp Val Pro Gly Ser

65 70 75 80

Val Pro Leu His Arg Ala Leu Asn Pro Ser His Ala Cys Thr Glu Ala

85 90 95

Leu Phe Pro Ser Glu Val Pro

100

<210> 3628

<211> 800

<212> PRT

<213> Homo sapiens

<400> 3628

Met Ala Gly Glu Leu Ala Asp Lys Lys Asp Arg Asp Ala Ser Pro Ser
 1 5 10 15
 Lys Glu Glu Arg Lys Arg Ser Arg Thr Pro Asp Arg Glu Arg Asp Arg
 20 25 30
 Asp Arg Asp Arg Lys Ser Ser Pro Ser Lys Asp Arg Lys Arg His Arg
 35 40 45
 Ser Arg Asp Arg Arg Arg Gly Gly Ser Arg Ser Arg Ser Arg Ser Arg
 50 55 60
 Ser Lys Ser Ala Glu Arg Glu Arg Arg His Lys Glu Arg Glu Arg Asp
 65 70 75 80
 Lys Glu Arg Asp Arg Asn Lys Lys Asp Arg Asp Arg Gly Lys Asp Phe
 85 90 95
 Lys Ser Arg Lys Asp Arg Asp Ser Lys Lys Asp Glu Glu Asp Glu His
 100 105 110
 Gly Asp Lys Lys Pro Lys Ala Gln Pro Leu Ser Leu Glu Glu Leu Leu
 115 120 125
 Ala Lys Lys Lys Ala Glu Glu Glu Ala Glu Ala Lys Pro Lys Phe Leu
 130 135 140
 Ser Lys Ala Glu Arg Glu Ala Glu Ala Leu Lys Arg Arg Gln Gln Glu
 145 150 155 160
 Val Glu Glu Arg Gln Arg Met Leu Glu Glu Glu Arg Lys Lys Arg Lys
 165 170 175
 Gln Phe Gln Asp Leu Gly Arg Lys Met Leu Glu Asp Pro Gln Glu Arg
 180 185 190
 Glu Arg Arg Glu Arg Arg Glu Arg Met Glu Arg Glu Thr Asn Gly Asn
 195 200 205
 Glu Asp Glu Glu Gly Arg Gln Lys Ile Arg Glu Glu Lys Asp Lys Ser
 210 215 220
 Lys Glu Leu His Ala Ile Lys Glu Arg Tyr Leu Gly Gly Ile Lys Lys

225 230 235 240
Arg Arg Arg Thr Arg His Leu Asn Asp Arg Lys Phe Val Phe Glu Trp
 245 250 255
Asp Ala Ser Glu Asp Thr Ser Ile Asp Tyr Asn Pro Leu Tyr Lys Glu
 260 265 270
Arg His Gln Val Gln Leu Leu Gly Arg Gly Phe Ile Ala Gly Ile Asp
 275 280 285
Leu Lys Gln Gln Lys Arg Glu Gln Ser Arg Phe Tyr Gly Asp Leu Met
 290 295 300
Glu Lys Arg Arg Thr Leu Glu Glu Lys Glu Gln Glu Glu Ala Arg Leu
305 310 315 320
Arg Lys Leu Arg Lys Lys Glu Ala Lys Gln Arg Trp Asp Asp Arg His
 325 330 335
Trp Ser Gln Lys Lys Leu Asp Glu Met Thr Asp Arg Asp Trp Arg Ile
 340 345 350
Phe Arg Glu Asp Tyr Ser Ile Thr Thr Lys Gly Gly Lys Ile Pro Asn
 355 360 365
Pro Ile Arg Ser Trp Lys Asp Ser Ser Leu Pro Pro His Ile Leu Glu
 370 375 380
Val Ile Asp Lys Cys Gly Tyr Lys Glu Pro Thr Pro Ile Gln Arg Gln
385 390 395 400
Ala Ile Pro Ile Gly Leu Gln Asn Arg Asp Ile Ile Gly Val Ala Glu
 405 410 415
Thr Gly Ser Gly Lys Thr Ala Ala Phe Leu Ile Pro Leu Leu Val Trp
 420 425 430
Ile Thr Thr Leu Pro Lys Ile Asp Arg Ile Glu Glu Ser Asp Gln Gly
 435 440 445
Pro Tyr Ala Ile Ile Leu Ala Pro Thr Arg Glu Leu Ala Gln Gln Ile
 450 455 460

Glu Glu Glu Thr Ile Lys Phe Gly Lys Pro Leu Gly Ile Arg Thr Val
465 470 475 480
Ala Val Ile Gly Gly Ile Ser Arg Glu Asp Gln Gly Phe Arg Leu Arg
485 490 495
Met Gly Cys Glu Ile Val Ile Ala Thr Pro Gly Arg Leu Ile Asp Val
500 505 510
Leu Glu Asn Arg Tyr Leu Val Leu Ser Arg Cys Thr Tyr Val Val Leu
515 520 525
Asp Glu Ala Asp Arg Met Ile Asp Met Gly Phe Glu Pro Asp Val Gln
530 535 540
Lys Ile Leu Glu His Met Pro Val Ser Asn Gln Lys Pro Asp Thr Asp
545 550 555 560
Glu Ala Glu Asp Pro Glu Lys Met Leu Ala Asn Phe Glu Ser Gly Lys
565 570 575
His Lys Tyr Arg Gln Thr Val Met Phe Thr Ala Thr Met Pro Pro Ala
580 585 590
Val Glu Arg Leu Ala Arg Ser Tyr Leu Arg Arg Pro Ala Val Val Tyr
595 600 605
Ile Gly Ser Ala Gly Lys Pro His Glu Arg Val Glu Gln Lys Val Phe
610 615 620
Leu Met Ser Glu Ser Glu Lys Arg Lys Lys Leu Leu Ala Ile Leu Glu
625 630 635 640
Gln Gly Phe Asp Pro Pro Ile Ile Ile Phe Val Asn Gln Lys Lys Gly
645 650 655
Cys Asp Val Leu Ala Lys Ser Leu Glu Lys Met Gly Tyr Asn Ala Cys
660 665 670
Thr Leu His Gly Gly Lys Gly Gln Glu Gln Arg Glu Phe Ala Leu Ser
675 680 685
Asn Leu Lys Ala Gly Ala Lys Asp Ile Leu Val Ala Thr Asp Val Ala

Gly	Lys	Pro	Pro	Gln	Arg	Ser	Pro	Arg	Leu	Glu	Ser	Ser	Arg	Val	Lys
65					70					75					80
Thr	Ser	Val	Leu	Ser	Ala	Arg	His	Lys	Ala	Lys	His	Leu	Arg	Ala	Val
				85					90					95	
Ala	Thr	Leu	Pro	Lys	Ala	Glu	Glu	Gly	Phe	Thr	Cys	Arg	His	Ala	Pro
			100					105					110		
His	Ala	Val	Arg	Ser	Thr	Ser	Thr	Phe	Val	His	Arg	Thr	Gly	Asn	Gly
		115					120						125		
Glu	Leu	Ile	Gly	Trp	Ala	Ala	Thr	Thr	His	Gly	Leu	His	Ser	Pro	Pro
	130					135					140				
Ala	Ala	Asp	Gly	Arg	Pro	Gln	Leu	Arg	Gly	Ala	Arg	Thr	Arg	Tyr	Pro
145					150					155				160	
Gly	Ile	Pro	Val	Ala	Leu	Ala	Ile	Ala	His	Arg	His	Ile	Ala	Gly	Met
				165					170					175	
Ser	Pro	Cys	Val	Arg	Arg	Glu	Ala	Leu	Leu	Phe	Pro	Ser	Cys	Glu	His
			180					185					190		
Gln	Ala	Gly	Pro	Arg	Ala	Leu	Cys	Val	Val	Ser	Ile	Gly	Arg	Cys	Arg
		195					200						205		
Thr	Lys	Val	Ala	Pro	Ser	Leu	Arg	Arg	Thr	Thr	Thr	His	Val	Thr	Leu
	210					215						220			
Ser	Cys	Ala	Thr	Leu	Gln	Gln	Pro	Leu	Gln	Thr	Cys	His	Asp	Ala	Asp
225					230					235				240	
Leu	Pro	Leu	Pro	Arg	Leu	Pro	Val	Ala	Ser	Pro	Arg	Asp	Pro	His	Leu
				245					250					255	
Cys	His	Pro	Gln	Arg	His	Arg	Arg	Cys	Arg	Pro	Gly	Leu	Asp	Arg	Arg
		260						265					270		
Pro	His	Lys	Leu	Gly	Phe	Pro	Ala	Val	Pro	Val	Arg	Ala	Glu	Leu	
		275						280					285		

<210> 3630

<211> 154

<212> PRT

<213> Homo sapiens

<400> 3630

Met Ala Ile Gly Met Arg Leu Arg Val Phe Ser Leu Lys Leu Asp Ala

1 5 10 15

Leu Phe His Phe Leu Pro Ser Lys Ile Asp Leu Met Pro His Asp Leu

20 25 30

Ile Thr Gln Leu Leu Arg Val Leu Ala Ile Glu Thr Lys Gln Glu Lys

35 40 45

Ala Met Ala His Ala Asp Pro Thr Glu Leu Ala Leu Ser Gly Leu Glu

50 55 60

Ala Phe Ser Phe Asp Tyr Ile Val Lys Trp Pro Leu Ser Leu Ile Ile

65 70 75 80

Asn Arg Cys Gly Ser Ala Ala Arg Ala Pro Ala Arg Ser Ser Leu Arg

85 90 95

Phe Gly Arg Ser Glu Asn Cys Ala Thr Arg Trp Pro Pro Arg Pro Thr

100 105 110

Glu Asp Pro Arg Arg Leu Ser Pro Ala Phe Ser Val Arg Glu Ile His

115 120 125

Gly Leu Ser Gly Gly His Gly Ala Asp Cys Gly Val Gln Thr Pro Cys

130 135 140

Pro Arg Arg Arg Arg Ser Arg Arg Pro Thr

145 150

<210> 3631

<211> 134

<212> PRT

<213> Homo sapiens

<400> 3631

Met Tyr Cys Gly Ser Pro Trp Pro Leu Gly Gln Ser Ser Arg Leu Gln

1 5 10 15

Asp Cys Leu Gln Arg Pro Cys Leu Pro Ala Ala Arg Glu Ser Ser Ser

20 25 30

Ala Ile His Leu Ser Leu Ile Cys His Thr Pro Gln Pro Trp Pro Ser

35 40 45

Ala Leu Ala Val Ser Ser His Thr Ser Gln Gly Pro Gly Ser Val Glu

50 55 60

Lys Pro Gln Lys Ala His Ala Ala Pro Cys Arg Pro Ala Thr Ala Ala

65 70 75 80

Ser Gly Phe Pro Trp Glu Arg His Pro Gly Arg Ala Gly Gln Gly Ser

85 90 95

Arg Ser Pro Leu Gly Ser Cys Gln Arg Val Asn Arg Ser Lys Thr Cys

100 105 110

Leu Trp Leu Ile Phe Leu Leu Ile Glu Val Ile Gln Ser Gln Met Lys

115 120 125

Tyr His Leu Asn Phe Pro

130

<210> 3632

<211> 108

<212> PRT

<213> Homo sapiens

<400> 3632

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Met Phe Leu Leu Phe Ile Tyr Ala Ile Asn Thr Ile Leu Cys Asn Leu
  1             5             10             15
Phe Phe Ile Phe Tyr Phe Phe Ala Leu Asp Ser Leu Cys Leu Phe Phe
      20             25             30
Glu Ile Asp Phe Arg Ser Val Thr Gln Ala Arg Val Gln Leu Cys Asp
      35             40             45
Leu Asp Ser Leu Gln Pro Pro Pro Pro Gly Phe Met Gln Phe Ser Cys
      50             55             60
Phe Gly Leu Leu Ser Ser Trp Asp Tyr Arg Pro Ile Thr Ile Pro Phe
      65             70             75             80
Ser Gly Trp Leu Gly Arg Gly His Pro Ser Leu Ser Leu Ala Ser Arg
      85             90             95
Gly Arg Thr Gly Leu Leu Val Ser Pro Gln Ser Cys
      100             105

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<210> 3633

<211> 102

<212> PRT

<213> Homo sapiens

<400> 3633

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Met Gln Trp His Asn Leu Gly Ser Leu Gln Pro Leu Pro Pro Arg Phe
  1             5             10             15
Lys Arg Phe Ser Cys Leu Ser Leu Pro Ile Ser Trp Asp Tyr Arg His
      20             25             30

```

Ala Pro Pro Arg Leu Thr Asn Phe Val Phe Leu Val Glu Thr Gly Phe
 35 40 45
 Leu Gln Val Gly Gln Ala Gly Leu Glu Leu Pro Thr Ser Gly Asp Pro
 50 55 60
 Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser Pro Tyr
 65 70 75 80
 Gln Arg Arg Leu Ala Ser Asp Ala Leu Leu Ser Ile Phe Val Lys Leu
 85 90 95
 Glu Ile Val Gly Gln Cys
 100

<210> 3634

<211> 254

<212> PRT

<213> Homo sapiens

<400> 3634

Met Asn Arg Ser Ser Gly Thr Pro Gly Arg Pro His Pro Gly Ala Pro
 1 5 10 15
 Arg Val Ala Ala Ser Leu Phe Leu Gly Thr Phe Phe Ile Ser Ser Gly
 20 25 30
 Leu Ile Leu Ser Val Ala Gly Phe Phe Tyr Leu Lys Arg Ser Ser Lys
 35 40 45
 Leu Pro Arg Ala Cys Tyr Arg Arg Asn Lys Ala Pro Ala Leu Gln Pro
 50 55 60
 Gly Glu Ala Ala Ala Met Ile Pro Pro Pro Gln Ser Ser Gly Asn Ser
 65 70 75 80
 Ser Cys Arg Ile Pro Leu Trp Gly Phe Pro Ser Leu Gly Gln Ser Gln

	85		90		95										
Gly	Ala	Leu	Trp	Val	Cys	Pro	Gln	Thr	Gly	Leu	Pro	Gly	Ser	Gly	Ser
	100						105						110		
Arg	Pro	Pro	Leu	Pro	Gly	Ser	Pro	Gly	Asp	Pro	Pro	Thr	Arg	Gln	Gly
	115						120						125		
Gln	Gly	Arg	Ile	Trp	Leu	Val	Pro	Pro	Ala	Leu	Asp	Leu	Ser	Trp	Ile
	130						135					140			
Trp	Pro	Ala	Pro	Pro	Ala	Arg	Pro	Pro	Leu	Ile	Pro	Val	Thr	Ser	Met
145					150					155				160	
Leu	Phe	Pro	Val	Pro	Glu	Thr	Trp	Gly	Leu	Gln	Glu	Arg	Arg	Thr	His
			165						170					175	
His	Asp	Arg	Ala	Asp	Pro	Gln	Tyr	Leu	Leu	Leu	Leu	Glu	Val	Gln	Leu
	180							185					190		
His	Pro	Arg	Thr	Asp	Ala	Ala	Gly	Leu	Arg	Gln	Ala	Leu	Leu	Ser	Ser
	195						200					205			
His	Arg	Phe	Ser	Gly	Ala	Gly	Ser	Gly	Gly	Pro	Lys	Ser	Gln	Pro	Val
	210					215					220				
Arg	Lys	Pro	Arg	Tyr	Val	Arg	Arg	Glu	Arg	Pro	Leu	Asp	Arg	Ala	Thr
225					230					235				240	
Asp	Pro	Ala	Ala	Phe	Pro	Gly	Glu	Ala	Arg	Ile	Ser	Asn	Val		
			245						250						

<210> 3635

<211> 118

<212> PRT

<213> Homo sapiens

<400> 3635

Met Thr Ser Asp Phe Asp Leu Leu Gly Ser Asp Asp Pro Pro Ala Ser
 1 5 10 15
 Ala Ser Arg Val Ala Gly Thr Val Gly Thr Pro Pro Cys Thr Ala Asn
 20 25 30
 Phe Phe Cys Ile Phe Leu Arg Arg Trp Arg Phe Ala Met Leu Pro Arg
 35 40 45
 Leu Val Ser Lys Ser Trp Ala Gln Ala Val Cys Pro Pro Gln Pro Pro
 50 55 60
 Lys Val Leu Glu Leu Gln Ala Arg Ala Thr Ala Pro Ser His Asn Leu
 65 70 75 80
 Arg Phe Leu Trp Gln Thr Glu Met Phe Lys Asn Thr Lys Phe Cys Ser
 85 90 95
 Gly Glu Thr Leu Cys Tyr Tyr Gln Ile Ser His Pro His Lys Val Phe
 100 105 110
 Leu Phe Gly Phe Val Ser
 115

<210> 3636

<211> 501

<212> PRT

<213> Homo sapiens

<400> 3636

Met Glu Thr Ile Leu Glu Gln Gln Arg Arg Tyr His Glu Glu Lys Glu
 1 5 10 15
 Arg Leu Met Asp Val Met Ala Lys Glu Met Leu Thr Lys Lys Ser Thr
 20 25 30
 Leu Arg Asp Gln Ile Asn Ser Asp His Arg Thr Arg Ala Met Gln Asp

35	40	45
Arg Tyr Met Glu Val Ser Gly Asn Leu Arg Asp Leu Tyr Asp Asp Lys		
50	55	60
Asp Gly Leu Arg Lys Glu Glu Leu Asn Ala Ile Ser Gly Pro Asn Glu		
65	70	75
Phe Ala Glu Phe Tyr Asn Arg Leu Lys Gln Ile Lys Glu Phe His Arg		
85	90	95
Lys His Pro Asn Glu Ile Cys Val Pro Met Ser Val Glu Phe Glu Glu		
100	105	110
Leu Leu Lys Ala Arg Glu Asn Pro Ser Glu Glu Ala Gln Asn Leu Val		
115	120	125
Glu Phe Thr Asp Glu Glu Gly Tyr Gly Arg Tyr Leu Asp Leu His Asp		
130	135	140
Cys Tyr Leu Lys Tyr Ile Asn Leu Lys Ala Ser Glu Lys Leu Asp Tyr		
145	150	155
Ile Thr Tyr Leu Ser Ile Phe Asp Gln Leu Phe Asp Ile Pro Lys Glu		
165	170	175
Arg Lys Asn Ala Glu Tyr Lys Arg Tyr Leu Glu Met Leu Leu Glu Tyr		
180	185	190
Leu Gln Asp Tyr Thr Asp Arg Val Lys Pro Leu Gln Asp Gln Asn Glu		
195	200	205
Leu Phe Gly Lys Ile Gln Ala Glu Phe Glu Lys Lys Trp Glu Asn Gly		
210	215	220
Thr Phe Pro Gly Trp Pro Lys Glu Thr Ser Ser Ala Leu Thr His Ala		
225	230	235
Gly Ala His Leu Asp Leu Ser Ala Phe Ser Ser Trp Glu Glu Leu Ala		
245	250	255
Ser Leu Gly Leu Asp Arg Leu Lys Ser Ala Leu Leu Ala Leu Gly Leu		
260	265	270

Lys Cys Gly Gly Thr Leu Glu Glu Arg Ala Gln Arg Leu Phe Ser Thr
275 280 285

Lys Gly Lys Ser Leu Glu Ser Leu Asp Thr Ser Leu Phe Ala Lys Asn
290 295 300

Pro Lys Ser Lys Gly Thr Lys Arg Asp Thr Glu Arg Asn Lys Asp Ile
305 310 315 320

Ala Phe Leu Glu Ala Gln Ile Tyr Glu Tyr Val Glu Ile Leu Gly Glu
325 330 335

Gln Arg His Leu Thr His Glu Asn Val Gln Arg Lys Gln Ala Arg Thr
340 345 350

Gly Glu Gly Arg Glu Glu Glu Glu Glu Glu Gln Ile Ser Glu Ser Glu
355 360 365

Ser Glu Asp Glu Glu Asn Glu Ile Ile Tyr Asn Pro Lys Asn Leu Pro
370 375 380

Leu Gly Trp Asp Gly Lys Pro Ile Pro Tyr Trp Leu Tyr Lys Leu His
385 390 395 400

Gly Leu Asn Ile Asn Tyr Asn Cys Glu Ile Cys Gly Asn Tyr Thr Tyr
405 410 415

Arg Gly Pro Lys Ala Phe Gln Arg His Phe Ala Glu Trp Arg His Ala
420 425 430

His Gly Met Arg Cys Leu Gly Ile Pro Asn Thr Ala His Phe Ala Asn
435 440 445

Val Thr Gln Ile Glu Asp Ala Val Ser Leu Trp Ala Lys Leu Lys Leu
450 455 460

Gln Lys Ala Ser Glu Arg Trp Gln Pro Asp Thr Glu Glu Glu Tyr Glu
465 470 475 480

Asp Ser Ser Gly Asn Val Val Asn Lys Lys Thr Tyr Glu Asp Leu Lys
485 490 495

Arg Gln Gly Leu Leu

500

<210> 3637

<211> 212

<212> PRT

<213> Homo sapiens

<400> 3637

Met Ser Lys Met Phe Ser Gly Gly Ala Ser Ser Ala Gly Arg Arg Glu

1 5 10 15

Gly Asn Arg Cys Gly Gln Ala Glu Leu Ser Arg Gly Ala Gly Gly Arg

20 25 30

Leu Arg Ala Pro Asp Gly Ile Ser Thr Val Gly Arg Val Pro Leu Pro

35 40 45

Trp Ser Cys Pro Ala Gly Trp Trp Pro Pro Glu Ala Thr Val Arg Leu

50 55 60

Trp Pro Leu Thr Leu Pro Ala Gly Leu Asn Ser Trp Pro Arg Val Arg

65 70 75 80

Phe Gly Gly Ala Pro Phe Cys Leu Pro Gln Asn Gly Leu Leu Tyr Phe

85 90 95

His Pro Gln Ala Ala Gly Pro Arg Leu Ala Ser Arg Trp Arg Gly Arg

100 105 110

Thr Val Ala Thr Val Ala Pro Ala Arg Tyr Leu Ser Trp Gly Trp Ile

115 120 125

Pro Gly Glu Ala Leu Thr His Arg Val Lys Ala Ser Trp Gln Pro Pro

130 135 140

Gln Gly Arg Ser Leu Gly Ser Pro Arg Phe Ala Asp Glu Glu Thr Val

145 150 155 160

Thr Cys Ser Ser His Thr Ala Arg Lys Arg Trp Ser Tyr Gly Trp Val
 165 170 175
 Gln Val Cys Leu Asp Pro Val Leu Cys Gln Cys Leu His Pro Pro Ser
 180 185 190
 Arg Pro Arg Arg Leu Ala Ser Phe His Lys Leu Glu Gly Pro Gln Asp
 195 200 205
 Ser Leu Leu Ser
 210

<210> 3638

<211> 125

<212> PRT

<213> Homo sapiens

<400> 3638

Met Pro Phe Pro Ala Ser Pro Gly Gln Ala Arg Ser Trp Cys Cys Thr
 1 5 10 15
 His Leu Leu His Ala Pro Leu Gly Asp Gly Thr Leu Gln His Cys Leu
 20 25 30
 Leu Leu Phe Pro Gly Leu Asn Val Ala Lys Cys His Val Val Gln Glu
 35 40 45
 Ser Arg Gln Phe Ala Ile Gly Val Phe Gln Ser Leu Ser Leu Gly Leu
 50 55 60
 Arg Leu Lys Gln Val Cys His Phe Cys Ser Gln Leu Val Gln Gly Pro
 65 70 75 80
 Pro Arg Cys Ser Gln Gln Cys Ser Leu Pro Cys Ala Trp Leu Leu Ala
 85 90 95
 Cys Ser Pro Arg Leu His Leu Thr Leu Trp Ser Thr Leu Val Phe Ala

100 105 110
Arg Asp Ser Leu Ser Leu Pro Leu Ile Glu Ile Leu Thr
115 120 125

<210> 3639

<211> 137

<212> PRT

<213> Homo sapiens

<400> 3639

Met Cys Ala Thr Ser Gln Pro Leu Val Pro Asn Ser Pro Gln Ala Leu
1 5 10 15
Leu Ser Leu Cys Leu Cys Leu Tyr Arg Phe Leu Cys Pro Ala Tyr Phe
20 25 30
Pro Phe Leu Thr Ser Pro Ala Ile His Leu Phe Ile Ser Ile His Leu
35 40 45
Phe Ile Ser Ile His Leu Phe Ile Lys Tyr Leu Trp Gly Ala Ser Met
50 55 60
Met Cys Gln Ser Tyr Trp Pro Val Gly Leu Ile Ser Asp Thr Ala Leu
65 70 75 80
Val Thr Val Leu Val Gly Arg Ala Leu Cys Ile Pro His Arg Pro Ala
85 90 95
Gly Pro Cys Phe Ala Val Ala Thr Tyr Asn Ala Gln Gly Pro Leu Ser
100 105 110
Val Thr Pro Val Leu Leu Phe Ser Thr Leu Val Leu Val His His Phe
115 120 125
Pro Trp Arg Ser Tyr Val Asn Arg Asp
130 135

<210> 3640

<211> 224

<212> PRT

<213> Homo sapiens

<400> 3640

Met Glu Asn Gln Thr Lys Pro Pro Asp Pro Arg Pro Asp Ala Pro Pro

1 5 10 15

Glu Tyr Asn Ser His Phe Leu Pro Gly Pro Pro Gly Thr Ala Val Pro

20 25 30

Pro Pro Thr Gly Tyr Pro Gly Gly Leu Pro Met Gly Tyr Tyr Ser Pro

35 40 45

Gln Gln Pro Ser Thr Phe Pro Leu Tyr Gln Pro Val Gly Gly Ile His

50 55 60

Pro Val Arg Tyr Gln Pro Gly Lys Tyr Pro Met Pro Asn Gln Ser Val

65 70 75 80

Pro Ile Thr Trp Met Pro Gly Pro Thr Pro Met Ala Asn Cys Pro Pro

85 90 95

Gly Leu Glu Tyr Leu Val Gln Leu Glu Val Gln Cys Pro Pro Gly Val

100 105 110

Thr Ile Gly Phe Val Ala Glu His Trp Asn Leu Cys Arg Ala Val Tyr

115 120 125

Ser Ile Gln Asn Glu Lys Lys Glu Asn Val Met Arg Val Arg Gly Pro

130 135 140

Cys Ser Thr Tyr Gly Cys Gly Ser Asp Ser Val Phe Glu Val Lys Ser

145 150 155 160

Leu Asp Gly Ile Ser Asn Ile Gly Ser Ile Ile Arg Lys Trp Asn Gly

	165		170		175										
Leu	Leu	Ser	Ala	Met	Ala	Asp	Ala	Asp	His	Phe	Asp	Ile	His	Phe	Pro
	180		185		190										
Leu	Asp	Leu	Asp	Val	Lys	Met	Lys	Ala	Met	Ile	Phe	Gly	Ala	Cys	Phe
	195		200		205										
Leu	Ile	Asp	Phe	Met	Tyr	Phe	Glu	Arg	Ser	Pro	Pro	Gln	Arg	Ser	Arg
	210		215		220										

<210> 3641

<211> 116

<212> PRT

<213> Homo sapiens

<400> 3641

Met	Tyr	Lys	Tyr	Ile	Gln	Thr	His	Asp	Thr	Glu	Leu	Asp	His	Gln	Gln
1				5					10					15	
Gly	Ile	Cys	Lys	Lys	Arg	Arg	Glu	Asn	Ile	Thr	Gly	Leu	Ser	Pro	Glu
			20					25					30		
Asn	Val	His	Ala	His	Leu	His	Met	Arg	Asn	Arg	Gly	Phe	Arg	Trp	Leu
			35				40					45			
Asn	Asp	Val	Leu	Trp	Ile	Ile	Ser	Ala	Ser	Ser	Arg	Pro	Gln	Leu	Leu
		50				55					60				
Pro	Phe	Pro	Val	Lys	Ile	Phe	Leu	Trp	Ile	Leu	Asp	Thr	Lys	Gly	Glu
	65				70				75					80	
Lys	Ile	Ser	Ile	Leu	Lys	Phe	Leu	Asn	Ser	Ala	Leu	Gln	Lys	Val	Leu
			85					90					95		
Gly	Ile	Cys	Asn	Val	Leu	Gln	Val	Gly	Met	Asp	Phe	Leu	Leu	Ala	Ala
			100					105					110		

Phe Gln Pro Leu

115

<210> 3642

<211> 161

<212> PRT

<213> Homo sapiens

<400> 3642

Met Cys Leu Ser Ser Gly His Ile Arg Asn Glu Pro Arg Pro Gln Ser

1

5

10

15

Trp Pro Pro Pro Gln Gly Trp Val Leu Arg Arg Pro Pro Gln Pro Leu

20

25

30

Ser Leu Asp Leu Pro Ala Glu Gln Thr Arg Thr Ser His Ser Pro Ala

35

40

45

Thr Ala Arg Ser Cys Ser Trp Ser Ser Thr Pro Gly Trp Arg Glu Arg

50

55

60

Arg His Pro Gly Gln Pro Ala Ser Thr Gln Ala Leu Thr Val Glu Ala

65

70

75

80

His Val Phe Leu Gly Ser Ile Leu Lys Ala Val Leu Ser Thr Thr Ala

85

90

95

Leu Thr Arg Ile Asp Leu Ser Glu Pro Ala Cys Gln Tyr Arg Pro Ala

100

105

110

Gln Asp Trp Pro Gln Gly His Ile Gly Glu Gly Gly Asp Gln Ala Leu

115

120

125

Ala Ala Ala His Val Gly Lys Ser Met Ala Arg Gln Glu Val Gly Pro

130

135

140

Val Ser Leu Ala Thr Ala Thr Val Gly Ala Gly Pro Gly Ala Pro Gln

145 150 155 160
Pro

<210> 3643

<211> 386

<212> PRT

<213> Homo sapiens

<400> 3643

Met Tyr Arg Asn Gly Ile Ser Thr Thr Pro Gln Gly Asp Met Asn Ser
1 5 10 15

Phe Ser Gln Ala Ala Ala His Gly His Arg Asn Val Phe Arg Lys Leu
20 25 30

Leu Ala Gln Pro Glu Lys Glu Lys Ser Asp Ile Leu Ser Leu Glu Glu
35 40 45

Ile Leu Ala Glu Gly Thr Asp Leu Ala Glu Thr Ala Pro Pro Pro Leu
50 55 60

Cys Ala Ser Arg Asn Ser Lys Ala Lys Leu Arg Ala Leu Arg Glu Ala
65 70 75 80

Met Tyr His Ser Ala Glu His Gly Tyr Val Asp Val Thr Ile Asp Ile
85 90 95

Arg Ser Ile Gly Val Pro Trp Thr Leu His Thr Trp Leu Glu Ser Leu
100 105 110

Arg Ile Ala Phe Gln Gln His Arg Arg Pro Leu Ile Gln Cys Leu Leu
115 120 125

Lys Glu Phe Lys Thr Ile Gln Glu Glu Glu Tyr Thr Glu Glu Leu Val
130 135 140

Thr Gln Gly Leu Pro Leu Met Phe Glu Ile Leu Lys Ala Ser Lys Asn
145 150 155 160
Glu Val Ile Ser Gln Gln Leu Cys Val Ile Phe Thr His Cys Tyr Gly
165 170 175
Pro Tyr Pro Ile Pro Lys Leu Thr Glu Ile Lys Arg Lys Gln Thr Ser
180 185 190
Arg Leu Asp Pro His Phe Leu Asn Asn Lys Glu Met Ser Asp Val Thr
195 200 205
Phe Leu Val Glu Gly Arg Pro Phe Tyr Ala His Lys Val Leu Leu Phe
210 215 220
Thr Ala Ser Pro Arg Phe Lys Ala Leu Leu Ser Ser Lys Pro Thr Asn
225 230 235 240
Asp Gly Thr Cys Ile Glu Ile Gly Tyr Val Lys Tyr Ser Ile Phe Gln
245 250 255
Leu Val Met Gln Tyr Leu Tyr Tyr Gly Gly Pro Glu Ser Leu Leu Ile
260 265 270
Lys Asn Asn Glu Ile Met Glu Leu Leu Ser Ala Ala Lys Phe Phe Gln
275 280 285
Leu Glu Ala Leu Gln Arg His Cys Glu Ile Ile Cys Ala Lys Ser Ile
290 295 300
Asn Thr Asp Asn Cys Val Asp Ile Tyr Asn His Ala Lys Phe Leu Gly
305 310 315 320
Val Thr Glu Leu Ser Ala Tyr Cys Glu Gly Tyr Phe Leu Lys Asn Met
325 330 335
Met Val Leu Ile Glu Asn Glu Ala Phe Lys Gln Leu Leu Tyr Asp Lys
340 345 350
Asn Gly Glu Gly Thr Gly Gln Asp Val Leu Gln Asp Leu Gln Arg Thr
355 360 365
Leu Ala Ile Arg Ile Gln Ser Ile His Leu Ser Ser Ser Lys Gly Ser

370 375 380
Val Val
385

<210> 3644

<211> 121

<212> PRT

<213> Homo sapiens

<400> 3644

Met Gly Pro Gln Phe Leu Ser Phe Phe Leu Phe Leu Pro Ser Phe Leu
1 5 10 15
Phe Ser Phe Leu Phe Phe Leu Ser Phe Leu Phe Phe Ser Ser Phe Phe
 20 25 30
Ser Phe Phe Tyr Phe Leu Ser Ser Phe Pro Leu Phe Ser Phe Phe Leu
 35 40 45
Ser Phe Ser Leu Ser Phe Leu Phe Leu Thr Glu Ser Tyr Phe Val Ala
50 55 60
Gln Ala Gly Val Gln Trp Arg Asp Leu Gly Ser Leu Gln Pro Pro Pro
65 70 75 80
Ser Gly Phe Lys Arg Phe Ser Cys Leu Ser Leu Ser Ser Thr Trp Gly
 85 90 95
Tyr Arg Cys Met Ala Gln Arg Pro Ala Asn Phe Leu Cys Phe Ser Gly
 100 105 110
Asp Gly Val Ser Pro Cys Trp Pro Gly
115 120

<210> 3645

<211> 133

<212> PRT

<213> Homo sapiens

<400> 3645

Met Ser Pro Pro Ser Gly Pro Gly Pro Pro His Ser Ser Ala Trp His

1 5 10 15

Trp Pro Pro Pro Pro Pro Ala Pro Pro Cys Met Pro Ala Ala Pro Trp

20 25 30

Gln Thr Pro Pro Trp Ala Leu Gly Trp Thr Arg Arg Asp Ala Gly Ser

35 40 45

Glu Ala Pro Glu Gln Thr Gln Pro Met Cys Gln Pro Ser Asp Ser Gln

50 55 60

Ala Gly Leu Ser Ile Ile Lys Gln Cys Thr Val Thr His Arg Ala Pro

65 70 75 80

Pro Gly Thr Thr Arg Ala Lys Gly Leu Arg Leu His Val Gly Ser Thr

85 90 95

Ile Ile Met Ser Leu Gly Asn Arg Met Arg Pro Leu Pro Cys Leu Gly

100 105 110

Leu Pro Gly Pro Trp Gly Pro His Leu Ser Pro Ala Leu Pro Thr Thr

115 120 125

Gln Gly His Arg Gln

130

<210> 3646

<211> 115

<212> PRT

<213> Homo sapiens

<400> 3646

Met Pro Cys Ser Cys Ser His Lys Ser Arg Arg Ala Trp Gly His Thr
1 5 10 15
Gly His Gly Ser Val Val Ser Ile Ser Val Ser Gln Leu Leu Ala Gln
20 25 30
Gln Pro Ala Gly Arg Arg Pro Cys Met Arg Pro Asp Thr Gly Arg Lys
35 40 45
Leu His Ser Gln Phe Cys Pro Val Gln Lys Arg Pro Gly Arg Gly Gln
50 55 60
Ile Ala Pro Ala Val Pro Pro Tyr Pro Gln Gly Thr Ala Leu Ser Ser
65 70 75 80
Arg Leu Leu Asn Gly Pro Met Lys Asp Ala Val Thr Phe Ala Thr Phe
85 90 95
Leu Lys Gly Ser Gly Gln Gly Asp Thr Ser Gly Leu Cys Phe Gln Gly
100 105 110
Arg Leu Met
115

<210> 3647

<211> 386

<212> PRT

<213> Homo sapiens

<400> 3647

Met Cys Leu Leu Leu Ser Cys Pro Cys His Pro Ser Ala His Gly Gln
1 5 10 15

Ser Met Trp Ile Glu Arg Thr Ser Phe Val Thr Ala Tyr Lys Leu Pro
 20 25 30
 Gly Ile Leu Arg Trp Phe Glu Val Val His Met Ser Gln Thr Thr Ile
 35 40 45
 Ser Pro Leu Glu Asn Ala Ile Glu Thr Met Ser Thr Ala Asn Glu Lys
 50 55 60
 Ile Leu Met Met Ile Asn Gln Tyr Gln Ser Asp Glu Thr Leu Pro Ile
 65 70 75 80
 Asn Pro Leu Ser Met Leu Leu Asn Gly Ile Val Asp Pro Ala Val Met
 85 90 95
 Gly Gly Phe Ala Lys Tyr Glu Lys Ala Phe Phe Thr Glu Glu Tyr Val
 100 105 110
 Arg Asp His Pro Glu Asp Gln Asp Lys Leu Thr His Leu Lys Asp Leu
 115 120 125
 Ile Ala Trp Gln Ile Pro Phe Leu Gly Ala Gly Ile Lys Ile His Glu
 130 135 140
 Lys Arg Val Ser Asp Asn Leu Arg Pro Phe His Asp Arg Met Glu Glu
 145 150 155 160
 Cys Phe Lys Asn Leu Lys Met Lys Val Glu Lys Glu Tyr Gly Val Arg
 165 170 175
 Glu Met Pro Asp Phe Asp Asp Arg Arg Val Gly Arg Pro Arg Ser Met
 180 185 190
 Leu Arg Ser Tyr Arg Gln Met Ser Ile Ile Ser Leu Ala Ser Met Asn
 195 200 205
 Ser Asp Cys Ser Thr Pro Ser Lys Pro Thr Ser Glu Ser Phe Asp Leu
 210 215 220
 Glu Leu Ala Ser Pro Lys Thr Pro Arg Val Glu Gln Glu Glu Pro Ile
 225 230 235 240
 Ser Pro Gly Ser Thr Leu Pro Glu Val Lys Leu Arg Arg Ser Lys Lys

245 250 255
Arg Thr Lys Arg Ser Ser Val Val Phe Ala Asp Glu Lys Ala Ala Ala
260 265 270
Glu Ser Asp Leu Lys Arg Leu Ser Arg Lys His Glu Phe Met Ser Asp
275 280 285
Thr Asn Leu Ser Glu His Ala Ala Ile Pro Leu Lys Ala Ser Val Leu
290 295 300
Ser Gln Met Ser Phe Ala Ser Gln Ser Met Pro Thr Ile Pro Ala Leu
305 310 315 320
Ala Leu Ser Val Ala Gly Ile Pro Gly Leu Asp Glu Ala Asn Thr Ser
325 330 335
Pro Cys Leu Ser Gln Thr Phe Leu Gln Leu Ser Asp Gly Asp Lys Lys
340 345 350
Thr Leu Thr Arg Lys Lys Val Asn Gln Phe Phe Lys Thr Met Leu Ala
355 360 365
Ser Lys Ser Ala Glu Glu Gly Lys Gln Ile Pro Asp Ser Leu Ser Thr
370 375 380
Asp Leu
385

<210> 3648

<211> 157

<212> PRT

<213> Homo sapiens

<400> 3648

Met Thr Gln Thr Pro Ser Ser Arg Ser Ser Thr Val Leu Thr Arg Ala
1 5 10 15

Pro Asp Ser Ser Pro Thr Ala Pro Phe Leu Gly Ser Pro Thr Trp Met
 20 25 30
 Ser Thr Gly Thr Ala Ser Ser Ala Val Ala Arg Met Leu Asp Val Leu
 35 40 45
 Pro Gln Thr Cys Tyr Ser His Leu Pro Ile Ser Val Asn Ser Thr Thr
 50 55 60
 Phe Thr Gln Val Lys Ser Leu Gly Glu Ser Leu Asp Ser Phe His Pro
 65 70 75 80
 Leu His Phe Gln Pro Thr Pro Lys Ser Cys Trp Leu Tyr Cys Ser Cys
 85 90 95
 Leu Asn Pro Pro Ala Leu Val Ser Ile Ala Pro Leu Asn Pro Asp His
 100 105 110
 His Gly Gln Pro Ser Tyr Pro Ser Ser Arg His Glu Ala Arg Ser Pro
 115 120 125
 Leu Glu Val Tyr Asp Ser His His Arg Gly Ala Gly Gln Leu Ser Trp
 130 135 140
 Gly Pro Ser Leu Cys Thr Cys Asp Arg Val Cys Pro Ser
 145 150 155

<210> 3649

<211> 368

<212> PRT

<213> Homo sapiens

<400> 3649

Met His Pro Ser Thr His Pro Ser Ile His Ala Cys Ile His Leu Ser
 1 5 10 15
 Ile His Ala Ser Ile His Pro Pro Met His Pro Ser Thr His Pro Cys

20	25	30
Thr His Pro Phe Ile His Pro Cys	Ile His Pro Ser Thr His Val Ser	
35	40	45
Ile His Pro Ser Ile His Pro Cys	Ile His Ala Ser Ile His Pro Ser	
50	55	60
Ile His Pro Ser Val His Pro Ser Met	Tyr Pro Phe Ile His Ser Tyr	
65	70	75
Ile His Pro Phe Ile His Pro Trp	Ile His Ala Ser Ser Ile Arg Leu	
85	90	95
Cys Met Asn Ala Cys Met His Pro Ser	Ile His Pro Phe Ile Cys Ser	
100	105	110
Ser Ile His Pro Ser Met His Pro Pro	Ile Tyr Pro Phe Ile Tyr Pro	
115	120	125
Ser Met His Pro Leu Ile His Pro Cys	Ile His Ala Ser Ile Tyr Pro	
130	135	140
Ser Met His Pro Ser Ile His Pro Phe	Ile His Ala Ser Ile His Ala	
145	150	155
Tyr Ile His Pro Cys Ile His Gln Ser	Ile His Ala Cys Ile His Pro	
165	170	175
Ser Ile Tyr Pro Ser Ile His Ala Ser	Ile His Ser Ser Met Tyr Pro	
180	185	190
Cys Ile His Pro Ser Ile His Pro Ser	Ile Tyr Ala Arg Met His Pro	
195	200	205
Ser Ile His Ser Ser Phe His Pro Ser	Thr Tyr Pro Cys Ile His Pro	
210	215	220
Phe Ile Tyr Ala Cys Met His Pro Ser	Ile His Pro Ser Met His Ala	
225	230	235
Cys Met His Pro Ser Ile His Pro Tyr	Met His Ala Phe Ile His Pro	
245	250	255

Ser Val Asn Ala Ser Ile His Pro Cys Ile His Leu Ser Ile Cys Ala
 260 265 270
 Thr Ile His Pro Ser Met Tyr Pro Phe Ile His Leu Cys Asn His Pro
 275 280 285
 Ser Ile His Leu Phe Ile His Pro Cys Ile His Pro Ser Ile His Pro
 290 295 300
 Ser Ile His Val Ser Ile Tyr Pro Thr Met His Leu Ser Ile His Pro
 305 310 315 320
 Cys Ile His Pro Ser Ile Pro Pro Cys Ile His Pro Ser Ile His Glu
 325 330 335
 Ser Ile His His Pro Ser Ile His Pro Ser Ile Arg Pro Ser Met His
 340 345 350
 Ala Ser Ile His Pro Ser Ile His Leu Leu Asn Lys Ser Val Arg Ser
 355 360 365

<210> 3650

<211> 195

<212> PRT

<213> Homo sapiens

<400> 3650

Met Tyr Arg Ile Asn Thr Asp Ala Gln Glu Leu Glu Leu Cys Arg Arg
 1 5 10 15
 Leu Tyr Lys Leu His Phe Gln Leu Leu Leu Phe Gln Ala Tyr Cys
 20 25 30
 Lys Leu Ile Asn Gln Val Asn Thr Ile Lys Asn Glu Ala Glu Val Ile
 35 40 45
 Asn Met Ser Glu Glu Leu Ala Gln Leu Glu Ser Ile Leu Lys Glu Ala

50	55	60
Glu Ser Ala Ser Glu Asn Glu Glu Ile Asp Ile Ser Lys Ala Ala Gln		
65	70	75
Thr Thr Ile Glu Thr Ala Ile His Ser Leu Ile Glu Thr Leu Lys Asn		
	85	90
Lys Glu Phe Ile Ser Ala Ala Ala Gln Val Lys Ala Phe Arg Ser Leu		
100	105	110
Trp Pro Ser Asp Ile Phe Gly Ser Cys Glu Asp Asp Pro Val Gln Thr		
115	120	125
Leu Leu His Ile Tyr Phe His His Gln Thr Leu Gly Gln Thr Gly Ser		
130	135	140
Phe Ala Val Ile Gly Ser Asn Leu Asp Met Ser Glu Ala Asn Tyr Lys		
145	150	155
Leu Met Glu Leu Asn Leu Glu Ile Arg Glu Ser Leu Arg Met Val Gln		
	165	170
Ser Tyr Gln Leu Leu Ala Gln Ala Lys Pro Met Gly Asn Met Val Ser		
180	185	190
Thr Gly Phe		
195		

<210> 3651

<211> 136

<212> PRT

<213> Homo sapiens

<400> 3651

Met Leu Pro Phe Gln Val Gln Val Arg Ser Pro Asp Pro Thr Ile Trp
1 5 10 15

Trp Leu Glu Gly Gln Arg Asn Met Ser Thr Val Pro Thr Glu Ala Pro
 20 25 30
 Leu Pro Arg Arg Thr Trp Lys Val Ala Cys Gly Gly Ser Arg Ser Leu
 35 40 45
 Ala His Val Pro Gly Glu Thr Gly Arg Tyr Glu Ala Trp Arg Gly Gly
 50 55 60
 Gly Gly Gly His Ala Gly Gln Gly Trp Ala Gly Pro Trp Ser Glu Glu
 65 70 75 80
 Leu Ala Gln His Trp Gly Ala Gln Gly Trp Gly Ala Ala Pro Lys Ala
 85 90 95
 Ile Gly Cys Ser Arg Gly His Met Gly Ser Ser Arg Pro Gly Asp Asn
 100 105 110
 Ala Glu Leu Asp Pro Ser Met Lys Tyr Thr Leu Asp Val Glu Asp Trp
 115 120 125
 Ser Ile Lys Lys Arg Asn Lys Cys
 130 135

<210> 3652

<211> 410

<212> PRT

<213> Homo sapiens

<400> 3652

Met Ala Ala Met Glu Thr Glu Thr Ala Pro Leu Thr Leu Glu Ser Leu
 1 5 10 15
 Pro Thr Asp Pro Leu Leu Leu Ile Leu Ser Phe Leu Asp Tyr Arg Asp
 20 25 30
 Leu Ile Asn Arg Arg Leu Ser Gln Leu Ser Ser His Asp Pro Leu Trp

35	40	45
Arg Arg His Cys Lys Lys Tyr Trp Leu Ile Ser Glu Glu Glu Lys Thr		
50	55	60
Gln Lys Asn Gln Cys Trp Lys Ser Leu Phe Ile Asp Thr Tyr Ser Asp		
65	70	75
Val Gly Arg Tyr Ile Asp His Tyr Ala Ala Ile Lys Lys Ala Trp Asp		
85	90	95
Asp Leu Lys Lys Tyr Leu Glu Pro Arg Cys Pro Arg Met Val Leu Ser		
100	105	110
Leu Lys Glu Gly Ala Arg Glu Glu Asp Leu Asp Ala Val Glu Ala Gln		
115	120	125
Ile Gly Cys Lys Leu Pro Asp Asp Tyr Arg Cys Ser Tyr Arg Ile His		
130	135	140
Asn Gly Gln Lys Leu Val Val Pro Gly Leu Leu Gly Ser Met Ala Leu		
145	150	155
Ser Asn His Tyr Arg Ser Glu Asp Leu Leu Asp Val Asp Thr Ala Ala		
165	170	175
Gly Gly Phe Gln Gln Arg Gln Gly Leu Lys Tyr Cys Leu Pro Leu Thr		
180	185	190
Phe Cys Ile His Thr Gly Leu Ser Gln Tyr Ile Ala Val Glu Ala Ala		
195	200	205
Glu Gly Arg Asn Lys Asn Glu Val Phe Tyr Gln Cys Pro Asp Gln Met		
210	215	220
Ala Arg Asn Pro Ala Ala Ile Asp Met Phe Ile Ile Gly Ala Thr Phe		
225	230	235
Thr Asp Trp Phe Thr Ser Tyr Val Lys Asn Val Val Ser Gly Gly Phe		
245	250	255
Pro Ile Ile Arg Asp Gln Ile Phe Arg Tyr Val His Asp Pro Glu Cys		
260	265	270

Val Ala Thr Thr Gly Asp Ile Thr Val Ser Val Ser Thr Ser Phe Leu
 275 280 285
 Pro Glu Leu Ser Ser Val His Pro Pro His Tyr Phe Phe Thr Tyr Arg
 290 295 300
 Ile Arg Ile Glu Met Ser Lys Asp Ala Leu Pro Glu Lys Ala Cys Gln
 305 310 315 320
 Leu Asp Ser Arg Tyr Trp Arg Ile Thr Asn Ala Lys Gly Asp Val Glu
 325 330 335
 Glu Val Gln Gly Pro Gly Val Val Gly Glu Phe Pro Ile Ile Ser Pro
 340 345 350
 Gly Arg Val Tyr Glu Tyr Thr Ser Cys Thr Thr Phe Ser Thr Thr Ser
 355 360 365
 Gly Tyr Met Glu Gly Tyr Tyr Thr Phe His Phe Leu Tyr Phe Lys Asp
 370 375 380
 Lys Ile Phe Asn Val Ala Ile Pro Arg Phe His Met Ala Cys Pro Thr
 385 390 395 400
 Phe Arg Val Ser Ile Ala Arg Leu Val Ser
 405 410

<210> 3653

<211> 869

<212> PRT

<213> Homo sapiens

<400> 3653

Met Gly Lys Val Tyr Arg Ala Asp Arg Lys Ser Val Gln Arg Ile Lys
 1 5 10 15
 Ala Arg Asp Ile Val Pro Gly Asp Ile Val Glu Val Ala Val Gly Asp

20	25	30
Lys Val Pro Ala Asp Ile Arg Ile Leu Ala Ile Lys Ser Thr Thr Leu		
35	40	45
Arg Val Asp Gln Ser Ile Leu Thr Gly Glu Ser Val Ser Val Ile Lys		
50	55	60
His Thr Glu Pro Val Pro Asp Pro Arg Ala Val Asn Gln Asp Lys Lys		
65	70	75
Asn Met Leu Phe Ser Gly Thr Asn Ile Ala Ala Gly Lys Ala Leu Gly		
85	90	95
Ile Val Ala Thr Thr Gly Val Gly Thr Glu Ile Gly Lys Ile Arg Asp		
100	105	110
Gln Met Ala Ala Thr Glu Gln Asp Lys Thr Pro Leu Gln Gln Lys Leu		
115	120	125
Asp Glu Phe Gly Glu Gln Leu Ser Lys Val Ile Ser Leu Ile Cys Val		
130	135	140
Ala Val Trp Leu Ile Asn Ile Gly His Phe Asn Asp Pro Val His Gly		
145	150	155
Gly Ser Trp Phe Arg Gly Ala Ile Tyr Tyr Phe Lys Ile Ala Val Ala		
165	170	175
Leu Ala Val Ala Ala Ile Pro Glu Gly Leu Pro Ala Val Ile Thr Thr		
180	185	190
Cys Leu Ala Leu Gly Thr Arg Arg Met Ala Lys Lys Asn Ala Ile Val		
195	200	205
Arg Ser Leu Pro Ser Val Glu Thr Leu Gly Cys Thr Ser Val Ile Cys		
210	215	220
Ser Asp Lys Thr Gly Thr Leu Thr Thr Asn Gln Met Ser Val Cys Lys		
225	230	235
Met Phe Ile Ile Asp Lys Val Asp Gly Asp Ile Cys Leu Leu Asn Glu		
245	250	255

Phe Ser Ile Thr Gly Ser Thr Tyr Ala Pro Glu Gly Glu Val Leu Lys
 260 265 270
 Asn Asp Lys Pro Val Arg Pro Gly Gln Tyr Asp Gly Leu Val Glu Leu
 275 280 285
 Ala Thr Ile Cys Ala Leu Cys Asn Asp Ser Ser Leu Asp Phe Asn Glu
 290 295 300
 Ala Lys Gly Val Tyr Glu Lys Val Gly Glu Ala Thr Glu Thr Ala Leu
 305 310 315 320
 Thr Thr Leu Val Glu Lys Met Asn Val Phe Asn Thr Asp Val Arg Ser
 325 330 335
 Leu Ser Lys Val Glu Arg Ala Asn Ala Cys Asn Ser Val Ile Arg Gln
 340 345 350
 Leu Met Lys Lys Glu Phe Thr Leu Glu Phe Ser Arg Asp Arg Lys Ser
 355 360 365
 Met Ser Val Tyr Cys Ser Pro Ala Lys Ser Ser Arg Ala Ala Val Gly
 370 375 380
 Asn Lys Met Phe Val Lys Gly Ala Pro Glu Gly Val Ile Asp Arg Cys
 385 390 395 400
 Asn Tyr Val Arg Val Gly Thr Thr Arg Val Pro Leu Thr Gly Pro Val
 405 410 415
 Lys Glu Lys Ile Met Ala Val Ile Lys Glu Trp Gly Thr Gly Arg Asp
 420 425 430
 Thr Leu Arg Cys Leu Ala Leu Ala Thr Arg Asp Thr Pro Pro Lys Arg
 435 440 445
 Glu Glu Met Val Leu Asp Asp Ser Ala Arg Phe Leu Glu Tyr Glu Thr
 450 455 460
 Asp Leu Thr Phe Val Gly Val Val Gly Met Leu Asp Pro Pro Arg Lys
 465 470 475 480
 Glu Val Thr Gly Ser Ile Gln Leu Cys Arg Asp Ala Gly Ile Arg Val

	485		490		495
Ile Met Ile Thr Gly Asp Asn Lys Gly Thr Ala Ile Ala Ile Cys Arg					
	500		505		510
Arg Ile Gly Ile Phe Gly Glu Asn Glu Glu Val Ala Asp Arg Ala Tyr					
	515		520		525
Thr Gly Arg Glu Phe Asp Asp Leu Pro Leu Ala Glu Gln Arg Glu Ala					
	530		535		540
Cys Arg Arg Ala Cys Cys Phe Ala Arg Val Glu Pro Ser His Lys Ser					
545		550		555	560
Lys Ile Val Glu Tyr Leu Gln Ser Tyr Asp Glu Ile Thr Ala Met Thr					
	565		570		575
Gly Asp Gly Val Asn Asp Ala Pro Ala Leu Lys Lys Ala Glu Ile Gly					
	580		585		590
Ile Ala Met Gly Ser Gly Thr Ala Val Ala Lys Thr Ala Ser Glu Met					
	595		600		605
Val Leu Ala Asp Asp Asn Phe Ser Thr Ile Val Ala Ala Val Glu Glu					
	610		615		620
Gly Arg Ala Ile Tyr Asn Asn Met Lys Gln Phe Ile Arg Tyr Leu Ile					
625		630		635	640
Ser Ser Asn Val Gly Glu Val Val Cys Ile Phe Leu Thr Ala Ala Leu					
	645		650		655
Gly Leu Pro Glu Ala Leu Ile Pro Val Gln Leu Leu Trp Val Asn Leu					
	660		665		670
Val Thr Asp Gly Leu Pro Ala Thr Ala Leu Gly Phe Asn Pro Pro Asp					
	675		680		685
Leu Asp Ile Met Asp Arg Pro Pro Arg Ser Pro Lys Glu Pro Leu Ile					
	690		695		700
Ser Gly Trp Leu Phe Phe Arg Tyr Met Ala Ile Gly Gly Tyr Val Gly					
705		710		715	720

Ala Ala Thr Val Gly Ala Ala Ala Trp Trp Phe Leu Tyr Ala Glu Asp
725 730 735
Gly Pro His Val Asn Tyr Ser Gln Leu Thr His Phe Met Gln Cys Thr
740 745 750
Glu Asp Asn Thr His Phe Glu Gly Ile Asp Cys Glu Val Phe Glu Ala
755 760 765
Pro Glu Pro Met Thr Met Ala Leu Ser Val Leu Val Thr Ile Glu Met
770 775 780
Cys Asn Ala Leu Asn Ser Leu Ser Glu Asn Gln Ser Leu Leu Arg Met
785 790 795 800
Pro Pro Trp Val Asn Ile Trp Leu Leu Gly Ser Ile Cys Leu Ser Met
805 810 815
Ser Leu His Phe Leu Ile Leu Tyr Val Asp Pro Leu Pro Met Ile Phe
820 825 830
Lys Leu Arg Ala Leu Asp Leu Thr Gln Trp Leu Met Val Leu Lys Ile
835 840 845
Ser Leu Pro Val Ile Gly Leu Asp Glu Ile Leu Lys Phe Val Ala Arg
850 855 860
Asn Tyr Leu Glu Gly
865

<210> 3654

<211> 205

<212> PRT

<213> Homo sapiens

<400> 3654

Met Arg Glu Pro Leu Ile Pro Pro Cys Lys Ala Ala Ser Leu Ser Glu

1	5	10	15
Gln Glu Gln Val Arg Gly Glu Cys Gly Met Met Thr Ala Gln Gly Ile			
20	25	30	
Leu Gly Pro Arg Gly Lys Ser Lys Leu Pro Val Leu Pro Asp Pro Arg			
35	40	45	
Leu Ile Cys Arg Tyr Met Cys Ser Cys Arg Glu Ile Pro Gly Val Ile			
50	55	60	
Ser Thr Pro Val Pro His Ser Ala Gly Pro Gln Val Thr Arg Phe His			
65	70	75	80
Ser Pro Ser Pro Pro His Ile Ser Glu Leu Ser Gln Thr Leu His Ala			
85	90	95	
Pro Phe Gln Gly Ser Trp Pro Arg Pro Cys His Ala Leu Ser Gly Pro			
100	105	110	
Arg Ala Met Val Pro Asn Gln Leu His Pro Gly Thr Pro Cys Pro Ala			
115	120	125	
His Val Pro His Ser Cys Thr Met Pro Ala Gly Thr Cys Pro Leu Phe			
130	135	140	
Thr Gly Ala Pro Ala Ala Ala Glu Ala Gly Leu Asn Pro Gly Pro Ala			
145	150	155	160
Leu Arg Ala Pro Thr Ser Cys Ser Ser Ser Thr Trp Pro Lys Pro Phe			
165	170	175	
Met Thr Val Cys Leu Leu Pro Thr Ser Ser Met Leu Thr Ser Pro Gly			
180	185	190	
Thr Gly Gly Cys Ile Arg Ala Arg Ile Leu Glu Pro Ala			
195	200	205	

<210> 3655

<211> 130

<212> PRT

<213> Homo sapiens

<400> 3655

Met Leu Cys Cys Pro Arg Leu Gly His Trp Glu Pro Arg Glu Val Cys
1 5 10 15

Phe Tyr Val Leu Leu Thr Tyr Pro Phe Ile Phe Ser Ala Arg Pro Phe
20 25 30

Trp Tyr His Lys Met Leu Gln Ala His Leu Met Leu Phe Leu Pro Ser
35 40 45

Phe Gly Thr Ile Pro Leu Leu Lys Glu Ala Leu Val Pro Phe Ile Gly
50 55 60

Glu Leu Tyr Leu Glu Thr Thr Leu Trp Val Leu Asp Val Leu Ile Gly
65 70 75 80

Phe Gly Met Arg Leu Val Val Leu Leu Leu Leu Phe Trp Gly Gly
85 90 95

Val Leu Leu Cys Leu Pro Gly Trp Ser Ala Met Ala Arg Ser Trp Leu
100 105 110

Ala Ala Thr Phe Ala Ser Arg Val Gln Ser Ile Pro Val Pro Gln Pro
115 120 125

Pro Lys

130

<210> 3656

<211> 213

<212> PRT

<213> Homo sapiens

<400> 3656

Met Asp Thr Glu Arg Val Gly Asp Gly Lys Gln His Arg Arg Lys Gln
 1 5 10 15
 Ser Gln Arg Leu Arg Trp Pro Cys Cys Leu Ala Leu Val Pro Asp Arg
 20 25 30
 His Pro Ser Gln Leu Ser Ser Cys Thr Leu Cys Leu Leu Ala Ala Ala
 35 40 45
 Ser Gln Trp Glu Ser Trp Ala His Phe Ser Lys Trp His Thr Glu Ala
 50 55 60
 Ser Thr Gly Thr His Leu Gly Lys Ala Lys Ala Glu Gly Leu Gly Cys
 65 70 75 80
 Thr Val Lys Asn Thr Pro Gln Leu Ser Ile Cys Glu Pro Ser His Phe
 85 90 95
 Gly Pro Ser Phe Val His Ser Pro His Leu Leu Val Asp His Asp His
 100 105 110
 Arg Ala Gly Ala Ala Thr Gly Arg Gly Gln Ala Gly Pro Ser Arg Ala
 115 120 125
 Ser Ser Val Ser Pro Thr Phe Cys Pro Pro Thr Thr Ser His His Pro
 130 135 140
 Val Cys Ala Lys Gly Thr Asp Pro Val Leu Val Leu Gln Glu Glu Glu
 145 150 155 160
 Gln Asp Leu Asp Gly Glu Lys Gly Pro Ser Ser Glu Gly Pro Glu Glu
 165 170 175
 Glu Asp Gly Glu Gly Phe Ser Phe Lys Tyr Ser Pro Gly Lys Leu Arg
 180 185 190
 Gly Asn Gln Tyr Lys Lys Met Met Thr Lys Glu Glu Leu Glu Glu Glu
 195 200 205
 Gln Arg Thr Glu Glu
 210

<210> 3657

<211> 116

<212> PRT

<213> Homo sapiens

<400> 3657

Met Asn Ser Pro Pro Val Leu Ser Leu Leu Ser Gln His Gln Ile Ile
1 5 10 15
Leu Gln Pro Leu Ala Ile Trp Leu Leu Ser Leu Val Met Leu Leu Ser
20 25 30
Tyr Leu Ser Gln Arg Ile Ser Ile Gly His Pro Thr Ile Ile Ala Ile
35 40 45
Gly Leu Gln Pro Ser Leu Leu Thr Gly Tyr Ser Leu Pro Gly Gly Ile
50 55 60
Phe Leu Ser Phe Leu Pro Leu Phe Leu Phe Phe Gly Trp Arg Tyr Phe
65 70 75 80
Phe Gln Ser Leu Lys Gly Ser Ser Leu Leu Gly Asp Leu Leu Asn Arg
85 90 95
Met Phe Ile Ala Cys Met Ser Leu Ala Lys Arg Cys Leu Glu Phe Pro
100 105 110
Ser Gly Ile Tyr
115

<210> 3658

<211> 138

<212> PRT

<213> Homo sapiens

<400> 3658

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Met Lys Tyr Leu Ser Tyr Leu Leu Tyr Pro Leu Cys Val Gly Gly Ala
  1             5             10             15
Val Tyr Ser Leu Leu Asn Ile Lys Tyr Lys Ser Trp Tyr Ser Trp Leu
          20             25             30
Ile Asn Ser Phe Val Asn Gly Val Tyr Ala Phe Gly Phe Leu Phe Met
          35             40             45
Leu Pro Gln Leu Phe Val Asn Tyr Lys Leu Lys Ser Val Ala His Leu
          50             55             60
Pro Trp Lys Ala Phe Thr Tyr Lys Ala Phe Asn Thr Phe Ile Asp Asp
          65             70             75             80
Val Phe Ala Phe Ile Ile Thr Met Pro Thr Ser His Arg Leu Ala Cys
          85             90             95
Phe Arg Asp Asp Val Val Phe Leu Val Tyr Leu Tyr Gln Arg Trp Leu
          100            105            110
Tyr Pro Val Asp Lys Arg Arg Val Asn Glu Phe Gly Glu Ser Tyr Glu
          115            120            125
Glu Lys Ala Thr Arg Ala Pro His Thr Asp
          130            135

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<210> 3659

<211> 173

<212> PRT

<213> Homo sapiens

<400> 3659

Met Gly Arg Leu Asp Gly Lys Val Ile Ile Leu Thr Ala Ala Ala Gln
1 5 10 15
Gly Ile Gly Gln Ala Ala Ala Leu Ala Phe Ala Arg Glu Gly Ala Lys
20 25 30
Val Ile Ala Thr Asp Ile Asn Glu Ser Lys Leu Gln Glu Leu Glu Lys
35 40 45
Tyr Pro Gly Ile Gln Thr Arg Val Leu Asp Val Thr Lys Arg Lys Gln
50 55 60
Ile Asp Gln Phe Ala Asn Glu Val Glu Arg Leu Asp Val Leu Phe Asn
65 70 75 80
Val Ala Gly Phe Val His His Gly Thr Val Leu Asp Cys Glu Glu Lys
85 90 95
Asp Trp Asp Phe Ser Met Asn Leu Asn Val Arg Ser Met Tyr Leu Met
100 105 110
Ile Lys Ala Phe Leu Pro Arg Met Leu Ala Gln Lys Ser Gly Asn Ile
115 120 125
Ile Asn Met Ser Ser Ala Ala Ser Ser Val Lys Gly Gly Ser Val Ser
130 135 140
Phe Arg Gly Leu Arg Cys Ser Tyr Thr His Ile Ile Lys Ser Ser Ala
145 150 155 160
Phe Gly Asn Arg His Ser Arg Asp Tyr Asn Phe Lys Tyr
165 170

<210> 3660

<211> 235

<212> PRT

<213> Homo sapiens

<400> 3660

Met	Asp	Ala	Gln	Asp	Cys	Gln	Ala	Ala	Ala	Ser	Pro	Glu	Pro	Pro	Gly
1				5					10					15	
Pro	Pro	Ala	Arg	Ser	Cys	Val	Ala	Ala	Trp	Trp	Asp	Met	Val	Asp	Arg
			20					25					30		
Asn	Leu	Arg	His	Thr	Val	Pro	Ser	Cys	Arg	Gly	Glu	Asp	Ala	Lys	Gly
		35					40					45			
Lys	Asp	Cys	Cys	Trp	Tyr	Glu	Ala	Ala	Leu	Arg	Asp	Gly	Asn	Pro	Ile
	50					55				60					
Ile	Val	Tyr	Leu	His	Gly	Ser	Ala	Glu	His	Arg	Ala	Ala	Ser	His	Arg
	65				70				75					80	
Leu	Lys	Leu	Val	Lys	Val	Leu	Ser	Asp	Gly	Gly	Phe	His	Val	Leu	Ser
			85					90					95		
Val	Asp	Tyr	Arg	Gly	Phe	Gly	Asp	Ser	Thr	Gly	Lys	Pro	Thr	Glu	Glu
		100					105					110			
Gly	Leu	Thr	Thr	Asp	Ala	Ile	Cys	Val	Tyr	Glu	Trp	Thr	Lys	Ala	Arg
		115					120					125			
Ser	Gly	Ile	Thr	Pro	Val	Cys	Leu	Trp	Gly	His	Ser	Leu	Gly	Thr	Gly
	130					135					140				
Val	Ala	Thr	Asn	Ala	Ala	Lys	Val	Leu	Glu	Glu	Lys	Gly	Cys	Pro	Val
	145					150				155				160	
Asp	Ala	Ile	Val	Leu	Glu	Ala	Pro	Phe	Thr	Asn	Met	Trp	Val	Ala	Ser
			165					170					175		
Ile	Asn	Tyr	Pro	Leu	Leu	Lys	Ser	Leu	Ala	Leu	Ser	Ser	Arg	Leu	Glu
		180					185					190			
Cys	Ser	Gly	Val	Ile	Ser	Ala	His	Cys	Lys	Leu	Arg	Phe	Pro	Gly	Ser
		195					200					205			
Arg	His	Ser	Pro	Ala	Ser	Ala	Ser	Arg	Val	Ala	Gly	Thr	Thr	Gly	Ala
	210						215					220			

Arg His His Ala Trp Leu Ile Phe Leu Cys Phe
225 230 235

<210> 3661

<211> 310

<212> PRT

<213> Homo sapiens

<400> 3661

Met Glu Lys Cys Thr Lys Ser Ser Ser Thr Met Gln Val Glu Pro Ser
1 5 10 15
Phe Leu Gln Ala Glu Asn Leu Ile Leu Arg Pro Gln Met Gln His Pro
20 25 30
Thr Thr Glu Asn Thr Ala Lys Arg Gly Gln Val Met Pro Ala Leu Ala
35 40 45
Thr Thr Val Met Pro Val Pro Tyr Ser Leu Glu His Leu Thr Gln Phe
50 55 60
His Gly Asp Pro Ala Asn Cys Ser Glu Phe Leu Thr Gln Val Thr Thr
65 70 75 80
Tyr Leu Thr Ala Leu Gln Ile Ser Asn Pro Ala Asn Asp Ala Gln Ile
85 90 95
Lys Leu Phe Phe Asp Tyr Leu Ser Gln Gln Leu Glu Ser Cys Gly Ile
100 105 110
Ile Ser Gly Pro Asp Lys Ser Thr Leu Leu Lys Gln Tyr Glu Asn Leu
115 120 125
Ile Leu Glu Phe Gln Gln Ser Phe Gly Lys Pro Thr Lys Gln Glu Ile
130 135 140
Asn Pro Leu Met Asn Ala Lys Phe Asp Lys Gly Asp Asn Ser Ser Gln

145 150 155 160
Gln Asp Pro Ala Thr Phe His Leu Leu Ala Gln Asn Leu Ile Cys Asn
 165 170 175
Glu Thr Asn Gln Ser Gly Gln Phe Glu Lys Ala Leu Ala Asp Pro Asn
 180 185 190
Gln Asp Glu Glu Ser Val Thr Asp Met Met Asp Asn Leu Pro Asp Leu
 195 200 205
Ile Thr Gln Cys Ile Gln Leu Asp Lys Lys His Ser Asp Arg Pro Glu
 210 215 220
Leu Leu Gln Ser Glu Thr Gln Leu Pro Leu Leu Ala Ser Leu Ile Gln
225 230 235 240
His Gln Ala Leu Phe Ser Pro Thr Asp Pro Pro Pro Lys Lys Gly Pro
 245 250 255
Ile Gln Leu Arg Glu Gly Gln Leu Pro Leu Thr Pro Ala Lys Arg Ala
 260 265 270
Arg Gln Gln Glu Thr Gln Leu Cys Leu Tyr Cys Ser Gln Ser Gly His
 275 280 285
Phe Thr Arg Asp Cys Leu Ala Lys Arg Ser Arg Ala Pro Ala Thr Thr
 290 295 300
Asn Asn Thr Ala His Gln
305 310

<210> 3662

<211> 187

<212> PRT

<213> Homo sapiens

<400> 3662

Met Ser Lys Leu Pro Thr Asp Ser Ser Val Pro Gln Thr Gly Ala Ala
 1 5 10 15
 Asn Gly Asp Arg Asp Val Pro Gln Ala Glu Val Gly Arg Gly Arg Arg
 20 25 30
 Glu Pro Ala Pro Ala Gln Pro Glu Glu Ala Arg Glu Ser Pro Ala Ala
 35 40 45
 Ala Ala Ala Arg Glu Ala Arg Met Ala Glu Val Ala Arg Leu Leu Gly
 50 55 60
 Glu Pro Val Asp Glu Glu Gly Pro Glu Gly Arg Pro Arg Ser Arg His
 65 70 75 80
 Gly Asn Gly Gly Leu Ala Ala Leu Pro Tyr Leu Arg Leu Arg His Pro
 85 90 95
 Leu Ser Val Leu Gly Ile Asn Tyr Gln Gln Phe Leu Arg His Tyr Leu
 100 105 110
 Glu Asn Tyr Pro Ile Ala Pro Gly Arg Ile Gln Glu Leu Glu Glu Arg
 115 120 125
 Arg Arg Arg Phe Val Glu Ala Cys Arg Ala Arg Glu Ala Ala Phe Asp
 130 135 140
 Ala Glu Tyr Gln Arg Asn Pro His Arg Val Asp Leu Asp Ile Leu Thr
 145 150 155 160
 Phe Thr Ile Ala Leu Thr Ala Ser Glu Val Ile Asn Pro Leu Ile Glu
 165 170 175
 Glu Leu Gly Cys Asp Lys Phe Ile Asn Arg Glu
 180 185

<210> 3663

<211> 573

<212> PRT

<213> Homo sapiens

<400> 3663

Met	Ser	Gly	Glu	Leu	Ala	Val	Cys	Arg	Val	Thr	Glu	Gly	Ala	Ser	Cys
1				5						10				15	
Met	Ser	Glu	Leu	Ala	Val	Trp	Arg	Val	Thr	Glu	Gly	Ala	Ser	Cys	Met
			20					25						30	
Ser	Gly	Glu	Pro	Ala	Val	Cys	Arg	Val	Thr	Glu	Gly	Ala	Gly	Cys	Met
			35					40						45	
Ser	Glu	Leu	Ala	Val	Cys	Arg	Val	Thr	Glu	Gly	Ala	Ser	Cys	Met	Ser
			50					55						60	
Gly	Glu	Leu	Ala	Val	Trp	Arg	Val	Thr	Glu	Gly	Ala	Ser	Cys	Met	Ser
			65					70						75	
Gly	Glu	Leu	Ala	Val	Cys	Arg	Val	Thr	Glu	Gly	Pro	Gly	Cys	Met	Ser
								85						90	
Gly	Leu	Leu	Ala	Val	Cys	Arg	Val	Thr	Glu	Gly	Ala	Gly	Cys	Met	Ser
								100						105	
Gly	Glu	Leu	Ala	Val	Cys	Arg	Val	Thr	Glu	Gly	Ala	Ser	Cys	Met	Ser
								115						120	
Gly	Glu	Leu	Ala	Val	Cys	Arg	Val	Thr	Glu	Gly	Ala	Gly	Cys	Met	Ser
								130						135	
Gly	Leu	Leu	Ala	Val	Cys	Arg	Val	Thr	Glu	Gly	Ala	Gly	Cys	Met	Ser
								145						150	
Gly	Glu	Leu	Ala	Val	Cys	Arg	Val	Thr	Glu	Gly	Ala	Ser	Cys	Met	Ser
														165	
Gly	Glu	Leu	Pro	Val	Trp	Arg	Val	Thr	Glu	Gly	Ala	Gly	Arg	Met	Ser
								180						185	
Gly	Glu	Leu	Ala	Val	Cys	Gly	Val	Thr	Glu	Gly	Ala	Gly	Cys	Met	Ser
														195	
														200	
														205	

Gly Glu Leu Ala Val Cys Arg Val Thr Glu Gly Ala Gly Cys Met Ser
210 215 220

Gly Glu Leu Ala Val Cys Arg Val Thr Glu Gly Ala Gly Cys Met Ser
225 230 235 240

Gly Glu Leu Thr Val Cys Arg Val Thr Glu Gly Ala Gly Cys Met Ser
245 250 255

Gly Glu Leu Ala Val Trp Arg Val Thr Glu Gly Ala Gly Cys Met Ser
260 265 270

Gly Glu Leu Ala Val Cys Arg Val Thr Glu Gly Ala Gly Cys Met Ser
275 280 285

Gly Glu Leu Ala Val Trp Arg Val Thr Glu Gly Ala Gly Cys Met Ser
290 295 300

Gly Glu Leu Ala Val Cys Arg Val Thr Glu Gly Ala Ser Cys Met Ser
305 310 315 320

Gly Glu Leu Pro Val Trp Arg Val Thr Glu Gly Ala Ser Cys Met Ser
325 330 335

Gly Glu Leu Ala Val Cys Arg Val Thr Glu Gly Ala Gly Cys Met Ser
340 345 350

Gly Glu Leu Ala Val Cys Arg Val Thr Glu Gly Ala Gly Cys Met Ser
355 360 365

Gly Glu Leu Ala Val Cys Arg Val Thr Glu Gly Ala Gly Cys Met Ser
370 375 380

Gly Glu Leu Ala Val Cys Arg Val Thr Glu Gly Ala Gly Cys Met Ser
385 390 395 400

Gly Glu Leu Ala Val Cys Arg Val Thr Glu Gly Ala Gly Cys Met Ser
405 410 415

Gly Glu Leu Ala Val Cys Thr Val Thr Glu Gly Ala Ser Cys Met Ser
420 425 430

Gly Glu Leu Ala Val Cys Arg Val Thr Glu Gly Ala Arg Cys Met Ser

435 440 445
 Gly Glu Pro Ala Val Trp Arg Val Thr Glu Gly Ala Gly Cys Met Ser
 450 455 460
 Gly Glu Leu Ala Val Trp Arg Val Thr Glu Gly Ala Gly Cys Met Ser
 465 470 475 480
 Glu Leu Ala Val Trp Arg Val Thr Glu Gly Ala Gly Cys Met Ser Gly
 485 490 495
 Glu Leu Ala Val Cys Thr Val Thr Glu Gly Ala Ser Cys Met Ser Gly
 500 505 510
 Glu Leu Ala Val Cys Arg Val Thr Glu Gly Pro Cys Cys Val Ser Gly
 515 520 525
 Glu Leu Ala Val Cys Arg Val Thr Glu Gly Pro Cys Cys Ile Ser Gly
 530 535 540
 Glu Cys Ile Arg Ser Val Leu Ile Cys Leu Ile Pro Asp His Val Ser
 545 550 555 560
 Thr Gln Asp Thr Cys Val Cys Val Lys Gly Val Arg Ser
 565 570

<210> 3664

<211> 327

<212> PRT

<213> Homo sapiens

<400> 3664

Met Asp Glu Gln Cys Arg Phe Asp Phe Gly Ser Gly Tyr Gln Thr Cys
 1 5 10 15
 Leu Ala Phe Arg Thr Phe Glu Pro Cys Lys Gln Leu Trp Cys Ser His
 20 25 30

Pro Asp Asn Pro Tyr Phe Cys Lys Thr Lys Lys Gly Pro Pro Leu Asp
 35 40 45
 Gly Thr Glu Cys Ala Pro Gly Lys Trp Cys Phe Lys Gly His Cys Ile
 50 55 60
 Trp Lys Ser Pro Glu Gln Thr Tyr Gly Gln Asp Gly Gly Trp Ser Ser
 65 70 75 80
 Trp Thr Lys Phe Gly Ser Cys Ser Arg Ser Cys Gly Gly Gly Val Arg
 85 90 95
 Ser Arg Ser Arg Ser Cys Asn Asn Pro Ser Pro Ala Tyr Gly Gly Arg
 100 105 110
 Leu Cys Leu Gly Pro Met Phe Glu Tyr Gln Val Cys Asn Ser Glu Glu
 115 120 125
 Cys Pro Gly Thr Tyr Glu Asp Phe Arg Ala Gln Gln Cys Ala Lys Arg
 130 135 140
 Asn Ser Tyr Tyr Val His Gln Asn Ala Lys His Ser Trp Val Pro Tyr
 145 150 155 160
 Glu Pro Asp Asp Asp Ala Gln Lys Cys Glu Leu Ile Cys Gln Ser Ala
 165 170 175
 Asp Thr Gly Asp Val Val Phe Met Asn Gln Val Val His Asp Gly Thr
 180 185 190
 Arg Cys Ser Tyr Arg Asp Pro Tyr Ser Val Cys Ala Arg Gly Glu Cys
 195 200 205
 Val Pro Val Gly Cys Asp Lys Glu Val Gly Ser Met Lys Ala Asp Asp
 210 215 220
 Lys Cys Gly Val Cys Gly Gly Asp Asn Ser His Cys Arg Thr Val Lys
 225 230 235 240
 Gly Thr Leu Gly Lys Ala Ser Lys Gln Ala Gly Ala Leu Lys Leu Val
 245 250 255
 Gln Ile Pro Ala Gly Ala Arg His Ile Gln Ile Glu Ala Leu Glu Lys

260 265 270
 Ser Pro His Arg Ile Gly Glu Cys Trp Gly Ala Gly Arg Gly Gln Gln
 275 280 285
 Gly Pro Arg Pro Cys Pro Leu Thr Trp Gly Ser Trp Glu Thr Arg Gly
 290 295 300
 Gln Asp Ser Ser Thr Ser Gly Ile Val Leu Thr Gly Val Met Gly Arg
 305 310 315 320
 Asp Pro Leu Phe Ile Leu Phe
 325

<210> 3665

<211> 117

<212> PRT

<213> Homo sapiens

<400> 3665

Met Lys Met Asp Lys Thr Cys Ser Lys Thr Lys Asn Lys Ser Lys His
 1 5 10 15
 Ala Leu Arg Lys Lys Gln Leu Lys Arg Gln Lys Arg Asp Tyr Ile His
 20 25 30
 Ser Leu Lys Leu Leu Asn Val Leu Glu Glu Tyr Ile Thr Asp Glu Gln
 35 40 45
 Lys Glu Glu Glu Glu Glu Glu Gly Glu Glu Glu Glu Leu Ile Arg Ile
 50 55 60
 Phe Gln Glu Gln Gln Lys Lys Trp Gln Gln Tyr Arg Ser Val Arg Arg
 65 70 75 80
 Glu Arg Leu Lys Glu Met Lys Leu Leu Arg Asp Gln Phe Val Lys Ala
 85 90 95

Leu Glu Asp Phe Glu Asp Leu Cys Asp Arg Val Phe Ser Asp Glu Asp
100 105 110
Ser Glu Leu Asp Asn
115

<210> 3666

<211> 634

<212> PRT

<213> Homo sapiens

<400> 3666

Met Gly Leu Pro Leu Pro Ser Lys Val Ile Met His Phe Met Ser Ile
1 5 10 15
Ser Val Leu Gly Cys Trp His Gly Ala Lys Asp Glu Glu Ala Pro Ser
20 25 30
Lys Gln Cys Val Ser Val Gly Val Ser Gln Val Thr Thr Leu Lys Pro
35 40 45
Ala Leu Ser Thr Gln Lys Ala Gln Pro Cys Glu Thr Cys Ser Ser Leu
50 55 60
Leu Lys Asp Ile Leu His Leu Ala Glu His Asp Gly Thr His Pro Lys
65 70 75 80
Arg Thr Ala Lys Leu Tyr Leu His Gln Lys Glu His Leu Arg Glu Lys
85 90 95
Leu Thr Arg Ser Asp Glu Gly Arg Pro Ser Phe Val Asn Asp Ser Val
100 105 110
His Leu Ala Lys Arg Asn Leu Thr Cys Met Gln Gly Gly Lys Asp Phe
115 120 125
Thr Gly Asp Ser Asp Leu Gln Gln Gln Ala Leu His Ser Gly Trp Lys

130	135	140
Pro His Arg Asp Thr His Gly Val Glu Ala Phe Gln Ser Gly Gln Asn		
145	150	155
Asn Tyr Ser Cys Thr Gln Cys Gly Lys Asp Phe Cys His Gln His Thr		160
	165	170
Leu Phe Glu His Gln Lys Ile His Thr Glu Glu Arg Pro Tyr Glu Cys		175
	180	185
Ser Glu Cys Gly Lys Leu Phe Arg Tyr Asn Ser Asp Leu Ile Lys His		190
	195	200
Gln Arg Asn His Thr Gly Glu Arg Pro Tyr Lys Cys Ser Glu Cys Gly		205
	210	215
Lys Ala Phe Ser Leu Lys Tyr Asn Val Val Gln His Gln Lys Ile His		220
225	230	235
Thr Gly Glu Arg Pro Tyr Glu Cys Ser Glu Cys Gly Lys Ala Phe Leu		240
	245	250
Arg Lys Ser His Leu Leu Gln His Gln Arg Ile His Thr Arg Pro Arg		255
	260	265
Pro Tyr Val Cys Ser Glu Cys Gly Lys Ala Phe Leu Thr Gln Ala His		270
	275	280
Leu Val Gly His Gln Lys Ile His Thr Gly Glu Arg Pro Tyr Gly Cys		285
	290	295
Asn Glu Cys Gly Lys Tyr Phe Met Tyr Ser Ser Ala Leu Ile Arg His		300
305	310	315
Gln Lys Val His Thr Gly Glu Arg Pro Phe Tyr Cys Cys Glu Cys Gly		320
	325	330
Lys Phe Phe Met Asp Ser Cys Thr Leu Ile Ile His Gln Arg Val His		335
	340	345
Thr Gly Glu Lys Pro Tyr Glu Cys Asn Glu Cys Gly Lys Phe Phe Arg		350
	355	360
		365

Tyr Arg Ser Thr Leu Ile Arg His Gln Lys Val His Thr Gly Glu Lys
370 375 380
Pro Tyr Glu Cys Ser Glu Cys Gly Lys Phe Phe Met Asp Thr Ser Thr
385 390 395 400
Leu Ile Ile His Gln Arg Val His Thr Gly Glu Lys Pro Tyr Glu Cys
405 410 415
Asn Lys Cys Gly Lys Phe Phe Arg Tyr Cys Phe Thr Leu Asn Arg His
420 425 430
Gln Arg Val His Ser Gly Glu Arg Pro Tyr Glu Cys Ser Glu Cys Gly
435 440 445
Lys Phe Phe Val Asp Ser Cys Thr Leu Lys Ser His Gln Arg Val His
450 455 460
Thr Gly Glu Arg Pro Phe Glu Cys Ser Ile Cys Gly Lys Ser Phe Arg
465 470 475 480
Cys Arg Ser Thr Leu Asp Thr His Gln Arg Ile His Thr Gly Glu Arg
485 490 495
Pro Tyr Glu Cys Ser Glu Cys Gly Lys Phe Phe Arg His Asn Ser Asn
500 505 510
His Ile Arg His Arg Arg Asn His Phe Gly Glu Gly Ser Phe Glu Cys
515 520 525
Thr Glu Cys Gly Arg Val Phe Ser Gln Asn Ser His Leu Ile Arg His
530 535 540
Gln Lys Val His Thr Arg Glu Arg Thr Tyr Lys Cys Ser Lys Cys Gly
545 550 555 560
Lys Phe Phe Met Asp Ser Ser Thr Leu Ile Ser His Glu Arg Val His
565 570 575
Thr Gly Glu Lys Pro Tyr Glu Cys Ser Glu Cys Gly Lys Val Phe Arg
580 585 590
Tyr Asn Ser Ser Leu Ile Lys His Arg Arg Ile His Thr Gly Glu Arg

595 600 605
 Pro Tyr Gln Cys Ser Glu Cys Gly Arg Val Phe Asn Gln Asn Ser His
 610 615 620
 Leu Ile Gln His Gln Lys Val His Thr Arg
 625 630

<210> 3667

<211> 202

<212> PRT

<213> Homo sapiens

<400> 3667

Met Lys Lys Gly Pro Ser Gly Tyr Gly Phe Asn Leu His Ser Asp Lys
 1 5 10 15
 Ser Lys Pro Gly Gln Phe Ile Arg Ser Val Asp Pro Asp Ser Pro Ala
 20 25 30
 Glu Ala Ser Gly Leu Arg Ala Gln Asp Arg Ile Val Glu Val Asn Gly
 35 40 45
 Val Cys Met Glu Gly Lys Gln His Gly Asp Val Val Ser Ala Ile Arg
 50 55 60
 Ala Gly Gly Asp Glu Thr Lys Leu Leu Val Val Asp Arg Glu Thr Asp
 65 70 75 80
 Glu Phe Phe Lys Lys Cys Arg Val Ile Pro Ser Gln Glu His Leu Asn
 85 90 95
 Gly Pro Leu Pro Val Pro Phe Thr Asn Gly Glu Ile Gln Lys Glu Asn
 100 105 110
 Ser Arg Glu Ala Leu Ala Glu Ala Ala Leu Glu Ser Pro Arg Pro Ala
 115 120 125

Leu Val Arg Ser Ala Ser Ser Asp Thr Ser Glu Glu Leu Asn Ser Gln
 130 135 140
 Asp Ser Pro Pro Lys Gln Asp Ser Thr Ala Pro Ser Ser Thr Ser Ser
 145 150 155 160
 Ser Asp Pro Ile Leu Asp Phe Asn Ile Ser Leu Ala Met Ala Lys Glu
 165 170 175
 Arg Ala His Gln Lys Arg Ser Ser Lys Arg Ala Pro Gln Met Asp Trp
 180 185 190
 Ser Lys Lys Asn Glu Leu Phe Ser Asn Leu
 195 200

<210> 3668

<211> 107

<212> PRT

<213> Homo sapiens

<400> 3668

Met Cys Phe Gln Asn Val Thr Trp Lys Ala Val Arg Pro Leu Cys Leu
 1 5 10 15
 Val Val Val Val Val Val Val Val Asn Arg Ser Lys Phe Phe Gln Thr
 20 25 30
 His His His Arg Ser Gly Gln Thr Pro Lys Pro Ala Phe Pro Ala Thr
 35 40 45
 Gly Trp Leu Val Tyr Thr Arg Pro Ile Leu Tyr Glu Asn Ile Leu Lys
 50 55 60
 Val Thr Pro Val Asp Ser Tyr Lys Val Leu Pro Leu Ala Gly Arg Gly
 65 70 75 80
 Glu Ala Tyr Cys Pro Phe Gly Leu Glu Thr Ser Thr Val Val Asp Asn

	85	90	95
Ile Leu Lys Arg Leu Leu Leu Asn Ser Phe Ala			
100	105		

<210> 3669

<211> 445

<212> PRT

<213> Homo sapiens

<400> 3669

Met Ser Ile His Phe Ser Ser Pro Val Phe Thr Ser Arg Ser Ala Ala			
1	5	10	15
Phe Ser Gly Arg Gly Ala Gln Val Arg Leu Ser Ser Ala Arg Pro Gly			
20	25	30	
Gly Leu Gly Ser Ser Ser Leu Tyr Gly Leu Gly Ala Ser Arg Pro Arg			
35	40	45	
Val Ala Pro Leu Arg Leu Asp Ala Asp Pro Ser Leu Gln Arg Val Arg			
50	55	60	
Gln Glu Glu Ser Glu Gln Ile Lys Thr Leu Asn Asn Lys Phe Ala Ser			
65	70	75	80
Phe Ile Asp Lys Val Arg Phe Leu Glu Gln Gln Asn Lys Leu Leu Glu			
85	90	95	
Thr Lys Trp Thr Leu Leu Gln Glu Gln Lys Ser Ala Lys Ser Ser Arg			
100	105	110	
Leu Pro Asp Ile Phe Glu Ala Gln Ile Ala Gly Leu Arg Gly Gln Leu			
115	120	125	
Glu Ala Leu Gln Val Asp Gly Gly Arg Leu Glu Ala Glu Leu Arg Ser			
130	135	140	

Met Gln Asp Val Val Glu Asp Phe Lys Asn Arg Tyr Glu Asp Glu Ile
 145 150 155 160
 Asn Arg Arg Thr Ala Ala Glu Asn Glu Phe Val Val Leu Lys Lys Asp
 165 170 175
 Val Asp Ala Ala Tyr Met Ser Lys Val Glu Leu Glu Ala Lys Val Asp
 180 185 190
 Ala Leu Asn Asp Glu Ile Asn Phe Leu Arg Thr Leu Asn Glu Thr Glu
 195 200 205
 Leu Thr Glu Leu Gln Ser Gln Ile Ser Asp Thr Ser Val Val Leu Ser
 210 215 220
 Met Asn Asn Ser Arg Ser Leu Asp Leu Asp Gly Ile Ile Ala Glu Val
 225 230 235 240
 Lys Ala Gln Tyr Glu Glu Met Ala Lys Cys Ser Arg Ala Glu Ala Glu
 245 250 255
 Ala Trp Tyr Gln Thr Lys Phe Glu Thr Leu Gln Ala Gln Ala Gly Lys
 260 265 270
 His Gly Asp Asp Leu Arg Asn Thr Arg Asn Glu Ile Ser Glu Met Asn
 275 280 285
 Arg Ala Ile Gln Arg Leu Gln Ala Glu Ile Asp Asn Ile Lys Asn Gln
 290 295 300
 Arg Ala Lys Leu Glu Ala Ala Ile Ala Glu Ala Glu Glu Arg Gly Glu
 305 310 315 320
 Leu Ala Leu Lys Asp Ala Arg Ala Lys Gln Glu Glu Leu Glu Ala Ala
 325 330 335
 Leu Gln Arg Ala Lys Gln Asp Met Ala Arg Gln Leu Arg Glu Tyr Gln
 340 345 350
 Glu Leu Met Ser Val Lys Leu Ala Leu Asp Ile Glu Ile Ala Thr Tyr
 355 360 365
 Arg Lys Leu Leu Glu Gly Glu Glu Ser Arg Leu Ala Gly Asp Gly Val

370	375	380	
Gly Ala Val Asn Ile Ser Val Met Asn Ser Thr Gly Gly Ser Ser Ser			
385	390	395	400
Gly Gly Gly Ile Gly Leu Thr Leu Gly Gly Thr Met Gly Ser Asn Ala			
	405	410	415
Leu Ser Phe Ser Ser Ser Ala Gly Pro Gly Leu Leu Lys Ala Tyr Ser			
	420	425	430
Ile Arg Thr Ala Ser Ala Ser Arg Arg Ser Ala Arg Asp			
	435	440	445

<210> 3670

<211> 492

<212> PRT

<213> Homo sapiens

<400> 3670

Met Glu Leu Gly Leu Ser Trp Val Phe Leu Val Ala Ile Leu Lys Gly			
1	5	10	15
Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln			
	20	25	30
Pro Gly Gly Ser Arg Arg Leu Ser Cys Ala Ala Ser Ala Phe Thr Val			
	35	40	45
Ser Asn Asn Tyr Val Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu			
	50	55	60
Glu Trp Val Ser Ile Ile Tyr Ser Ala Gly Asp Thr Tyr Tyr Ala Asp			
	65	70	75
Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr			
	85	90	95

Leu His Leu Gln Met Asn Ser Leu Arg Ala Asp Asp Thr Ala Ile Tyr
 100 105 110
 Tyr Cys Ala Arg Met Gly Gly Gly Phe Leu Gly Asn Ala Phe Glu Ile
 115 120 125
 Trp Gly Gln Gly Thr Leu Met Thr Val Ser Ser Ala Ser Pro Thr Ser
 130 135 140
 Pro Lys Val Phe Pro Leu Ser Leu Cys Ser Thr Gln Pro Asp Gly Asn
 145 150 155 160
 Val Val Ile Ala Cys Leu Val Gln Gly Phe Phe Pro Gln Glu Pro Leu
 165 170 175
 Ser Val Thr Trp Ser Glu Ser Gly Gln Gly Val Thr Ala Arg Asn Phe
 180 185 190
 Pro Pro Ser Gln Asp Ala Ser Gly Asp Leu Tyr Thr Thr Ser Ser Gln
 195 200 205
 Leu Thr Leu Pro Ala Thr Gln Cys Leu Ala Gly Lys Ser Val Thr Cys
 210 215 220
 His Val Lys His Tyr Thr Asn Pro Ser Gln Asp Val Thr Val Pro Cys
 225 230 235 240
 Pro Val Pro Ser Thr Pro Pro Thr Pro Ser Pro Ser Thr Pro Pro Thr
 245 250 255
 Pro Ser Pro Ser Cys Cys His Pro Arg Leu Ser Leu His Arg Pro Ala
 260 265 270
 Leu Glu Asp Leu Leu Leu Gly Ser Glu Ala Asn Leu Thr Cys Thr Leu
 275 280 285
 Thr Gly Leu Arg Asp Ala Ser Gly Val Thr Phe Thr Trp Thr Pro Ser
 290 295 300
 Ser Gly Lys Ser Ala Val Gln Gly Pro Pro Glu Arg Asp Leu Cys Gly
 305 310 315 320
 Cys Tyr Ser Val Ser Ser Val Leu Pro Gly Cys Ala Glu Pro Trp Asn

325 330 335
His Gly Lys Thr Phe Thr Cys Thr Ala Ala Tyr Pro Glu Ser Lys Thr
340 345 350
Pro Leu Thr Ala Thr Leu Ser Lys Ser Gly Asn Thr Phe Arg Pro Glu
355 360 365
Val His Leu Leu Pro Pro Pro Ser Glu Glu Leu Ala Leu Asn Glu Leu
370 375 380
Val Thr Leu Thr Cys Leu Ala Arg Gly Phe Ser Pro Lys Asp Val Leu
385 390 395 400
Val Arg Trp Leu Gln Gly Ser Gln Glu Leu Pro Arg Glu Lys Tyr Leu
405 410 415
Thr Trp Ala Ser Arg Gln Glu Pro Ser Gln Gly Thr Thr Thr Phe Ala
420 425 430
Val Thr Ser Ile Leu Arg Val Ala Ala Glu Asp Trp Lys Lys Gly Asp
435 440 445
Thr Phe Ser Cys Met Val Gly His Glu Ala Leu Pro Leu Ala Phe Thr
450 455 460
Gln Lys Thr Ile Asp Arg Leu Ala Gly Lys Pro Thr His Val Asn Val
465 470 475 480
Ser Val Val Met Ala Glu Val Asp Gly Thr Cys Tyr
485 490

<210> 3671

<211> 475

<212> PRT

<213> Homo sapiens

<400> 3671

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Phe Arg Gly
 1 5 10 15
 Val Gln Cys Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln
 20 25 30
 Pro Gly Arg Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Phe Met Phe
 35 40 45
 Ser Gly Tyr Ala Phe His Trp Val Arg Gln Ala Pro Gly Leu Gly Leu
 50 55 60
 Glu Trp Val Ala Val Val Ser Lys Asp Gly Gly Lys Lys Glu Tyr Ala
 65 70 75 80
 Asp Ser Val Lys Gly Arg Phe Thr Leu Ser Arg Tyr Ile Thr Asn Asn
 85 90 95
 Thr Val Ser Leu Gln Met Asp Ser Leu Arg Leu Asp Asp Thr Ala Val
 100 105 110
 Tyr Tyr Cys Ala Arg Ala Pro Gln Glu Tyr Glu Phe Gly Arg Gly Tyr
 115 120 125
 His Ser Asn Arg Asn Gly Leu Asp Val Trp Gly Gln Gly Thr Thr Val
 130 135 140
 Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala
 145 150 155 160
 Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu
 165 170 175
 Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly
 180 185 190
 Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser
 195 200 205
 Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu
 210 215 220
 Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr

225	230	235	240
Lys Val Asp Lys Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser			
	245	250	255
Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro			
	260	265	270
Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr			
	275	280	285
Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn			
	290	295	300
Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg			
305	310	315	320
Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val			
	325	330	335
Val His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser			
	340	345	350
Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys			
	355	360	365
Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu			
	370	375	380
Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe			
385	390	395	400
Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu			
	405	410	415
Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe			
	420	425	430
Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly			
	435	440	445
Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr			
	450	455	460

Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys

465

470

475

<210> 3672

<211> 125

<212> PRT

<213> Homo sapiens

<400> 3672

Met Ser His Ser Arg Gly Arg Gly Thr Gly Ile Phe Val His Gln Phe

1

5

10

15

Pro Ser Ala Thr Ser Cys Cys Cys Ser Cys Ala Leu Ile Pro Gln His

20

25

30

Phe Trp Leu Val Gly Lys Ala Gly Arg Lys Arg His Thr Asp Met Gly

35

40

45

Gly Trp Glu Phe Thr Leu Trp Glu Gly Gln Arg Glu Arg Arg Gln Thr

50

55

60

Leu Arg Ala Arg Ala Val His Arg Asp Pro Ser Gly Gln Gln Leu Phe

65

70

75

80

Ile Lys His Leu Leu Pro Ala Leu Gly Gln Ile Leu Glu Thr Gln Gly

85

90

95

Glu Gln Asp Pro Ser Leu Ser Leu Ser Ser Trp Leu Val Gly Arg Trp

100

105

110

Pro Leu Thr Arg Ser Ser Ala His Met Val Arg Ser Val

115

120

125

<210> 3673

<211> 143

<212> PRT

<213> Homo sapiens

<400> 3673

Met Asp Glu Leu His Lys Leu Val Asp Glu Gly Ser Gln Met Ala Gly

1 5 10 15

Gly Leu Pro Val Ile Gln Gln Gln Ala Asp Glu Gly Gln Lys Ala Val

20 25 30

Pro Gln Arg Pro Leu Val Leu Ala Ala Glu His Val Arg Leu Gln Gln

35 40 45

Leu Gln Gln Ala Gln His Val Gln Glu Ala Ala Gln Val Val Leu Leu

50 55 60

Pro Glu Leu Leu Glu Val Glu Val Gly Ala Ala Val Gln Glu Arg Arg

65 70 75 80

Asp His Gly Gln Val Pro Glu Gln Gln Gln Arg Val Arg His Arg Gln

85 90 95

Leu Pro Ala Gly His Ala Gly Ile Arg Pro Ser Val Leu Gln Arg Pro

100 105 110

Gly Val Ala Gly Val Arg Lys Glu Arg Asp Glu Ala Val Asp Glu Ser

115 120 125

Val Gln Leu Ala Asp Ala Ala Ala Gly Ser Pro Phe Ala Val Gln

130 135 140

<210> 3674

<211> 205

<212> PRT

<213> Homo sapiens

<400> 3674

Met	Ala	Gln	Leu	Met	Glu	Val	Leu	Ser	Val	Thr	Pro	Thr	Gln	Ser	Pro
1				5						10				15	
Glu	Asn	Asn	Asp	Leu	Ile	Ser	Tyr	Asn	Ser	Val	Trp	Val	Ala	Cys	Gln
			20					25					30		
Gln	Met	Pro	Gln	Ile	Pro	Arg	Asp	Asn	Lys	Ala	Ala	Ala	Leu	Leu	Met
		35					40					45			
Leu	Thr	Lys	Asn	Val	Asp	Phe	Val	Lys	Asp	Ala	His	Glu	Glu	Met	Glu
	50					55					60				
Gln	Ala	Val	Glu	Glu	Cys	Asp	Pro	Tyr	Ser	Gly	Leu	Leu	Asn	Asp	Thr
65					70					75				80	
Glu	Glu	Asn	Asn	Ser	Asp	Asn	His	Asn	His	Glu	Asp	Asp	Val	Leu	Gly
			85					90					95		
Phe	Pro	Ser	Asn	Gln	Asp	Leu	Tyr	Trp	Ser	Glu	Asp	Asp	Gln	Glu	Leu
		100						105					110		
Ile	Ile	Pro	Cys	Leu	Ala	Leu	Val	Arg	Ala	Ser	Lys	Ala	Cys	Leu	Lys
		115						120				125			
Lys	Ile	Arg	Met	Leu	Val	Ala	Glu	Asn	Gly	Arg	Lys	Asp	Gln	Val	Ala
	130					135					140				
Gln	Leu	Asp	Asp	Ile	Val	Asp	Ile	Ser	Asp	Glu	Ile	Ser	Pro	Ser	Val
145					150					155				160	
Asp	Asp	Leu	Ala	Leu	Ser	Ile	Tyr	Pro	Pro	Met	Cys	His	Leu	Thr	Val
			165					170				175			
Arg	Ile	Asn	Val	Ser	Thr	Gly	Phe	Glu	Gly	Ile	Ala	Thr	Glu	Gln	Met
		180						185				190			
Gly	Arg	Ile	Ser	Leu	Ile	Thr	Ser	Ile	Ser	Cys	Lys	Leu			
		195						200				205			

<210> 3675

<211> 489

<212> PRT

<213> Homo sapiens

<400> 3675

Met Ser Arg Val Pro Gly Gly Tyr Leu Ala Leu Thr Glu Cys Phe Glu

1 5 10 15

Ile Met Thr Val Asp Phe Asn Asn Leu Gln Glu Leu Lys Ser Leu Ala

20 25 30

Thr Lys Lys Pro Asp Lys Ile Gly Ile Pro Val Ile Lys Glu Gly Ile

35 40 45

Leu Asp Ala Ile Met Val Trp Phe Val Leu Gln Leu Asp Asp Glu His

50 55 60

Ser Leu Ser Thr Ser Pro Ser Glu Glu Thr Cys Trp Glu Gln Ala Val

65 70 75 80

Tyr Pro Val Gln Asp Leu Ala Asp Tyr Trp Ile Lys Pro Gly Asp His

85 90 95

Val Met Met Glu Val Ser Cys Gln Asp Cys Tyr Leu Arg Ile Gln Ser

100 105 110

Ile Ser Val Leu Gly Leu Glu Cys Glu Met Asp Val Ala Lys Ser Phe

115 120 125

Thr Gln Asn Lys Asp Leu Leu Ser Leu Gly Asn Glu Ala Glu Leu Cys

130 135 140

Ser Ala Leu Ala Asn Leu Gln Thr Ser Lys Pro Asp Ala Val Glu Gln

145 150 155 160

Thr Cys Ile Leu Glu Ser Thr Glu Ile Ala Leu Leu Asn Asn Ile Pro

165 170 175

Tyr His Glu Gly Phe Lys Met Ala Met Ser Lys Val Leu Ser Ser Leu
 180 185 190
 Thr Pro Glu Lys Leu Tyr Gln Thr Met Asp Thr His Cys Gln Asn Glu
 195 200 205
 Met Ser Ser Gly Thr Gly Gln Ser Asn Thr Val Gln Asn Ile Leu Glu
 210 215 220
 Pro Phe Tyr Val Leu Asp Val Ser Glu Gly Phe Ser Val Leu Pro Val
 225 230 235 240
 Ile Ala Gly Thr Leu Gly Gln Val Lys Pro Tyr Ser Ser Val Glu Lys
 245 250 255
 Asp Gln His Arg Ile Ala Leu Asp Leu Ile Ser Glu Ala Asn His Phe
 260 265 270
 Pro Lys Glu Thr Leu Glu Phe Trp Leu Arg His Val Glu Asp Glu Ser
 275 280 285
 Ala Met Leu Gln Arg Pro Lys Ser Asp Lys Leu Trp Ser Ile Ile Ile
 290 295 300
 Leu Asp Val Ile Glu Pro Ser Gly Leu Ile Gln Gln Glu Ile Met Glu
 305 310 315 320
 Lys Ala Ala Ile Ser Arg Cys Leu Leu Gln Ser Gly Gly Lys Ile Phe
 325 330 335
 Pro Gln Tyr Val Leu Met Phe Gly Leu Leu Val Glu Ser Gln Thr Leu
 340 345 350
 Leu Glu Glu Asn Ala Val Gln Gly Thr Glu Arg Thr Leu Gly Leu Asn
 355 360 365
 Ile Ala Pro Phe Ile Asn Gln Phe Gln Val Pro Ile Arg Val Phe Leu
 370 375 380
 Asp Leu Ser Ser Leu Pro Cys Ile Pro Leu Ser Lys Pro Val Glu Leu
 385 390 395 400
 Leu Arg Leu Asp Leu Met Thr Pro Tyr Leu Asn Thr Ser Asn Arg Glu

405 410 415
 Val Lys Val Tyr Val Cys Lys Ser Gly Arg Leu Thr Ala Ile Pro Phe
 420 425 430
 Trp Tyr His Met Tyr Leu Asp Glu Glu Ile Arg Leu Asp Thr Ser Ser
 435 440 445
 Glu Ala Ser His Trp Lys Gln Ala Ala Val Val Leu Asp Asn Pro Ile
 450 455 460
 Gln Val Glu Met Gly Glu Glu Leu Val Leu Ser Ile Gln His His Lys
 465 470 475 480
 Ser Asn Val Ser Ile Thr Val Lys Gln
 485

<210> 3676

<211> 101

<212> PRT

<213> Homo sapiens

<400> 3676

Met Ser Thr Gly Leu Arg Leu Ala Glu Ser Arg Val Glu Pro Ala Leu
 1 5 10 15
 Glu Lys Gln Ala Leu Leu Gln Ala Gln Leu Glu Glu Gln Leu Arg Asp
 20 25 30
 Lys Val Leu His Glu Lys Asp Leu Ser Gln Gln Gln Met Gln Ser Asp
 35 40 45
 Leu Asp Lys Ala Asp Leu Ser Ala Arg Arg Val Pro Gly Gly Cys Cys
 50 55 60
 Thr Arg Gln Ala Ser Leu Gln Lys Ser Asp Arg Ala Gly Pro Gly Ser
 65 70 75 80

Glu Ala Ser Ser Glu Ala Glu Ser Gly Glu Gly Ser Gly Arg Gln Gly
 85 90 95
 Pro His Arg Glu Ala
 100

<210> 3677

<211> 104

<212> PRT

<213> Homo sapiens

<400> 3677

Met Leu Pro Pro Gly Asp Thr Thr Met Ile Pro Leu Ser Trp Lys Leu
 1 5 10 15
 Arg Leu Pro Pro Gly His Phe Arg Leu His Leu Pro Leu Ser Gln Gln
 20 25 30
 Val Lys Lys Gly Val Thr Val Leu Ala Gly Leu Ile Glu Pro Tyr Tyr
 35 40 45
 Gln Asp Asp Ile Ser Leu Leu Leu Asn Asn Glu Gly Lys Glu Glu Tyr
 50 55 60
 Glu Trp Asn Thr Gly Asp Pro Leu Gly Cys Leu Leu Val Leu Pro Cys
 65 70 75 80
 Pro Met Ile Lys Val Asn Gly Lys Leu Gln Gln Pro Asn Ser Gly Arg
 85 90 95
 Asn Thr Asn Ser Pro Asp Pro Ser
 100

<210> 3678

<211> 673

<212> PRT

<213> Homo sapiens

<400> 3678

Met	Ala	Trp	Leu	Ser	Gln	Arg	Gln	Leu	Ala	Arg	Ser	Cys	Leu	Asp	Leu
1				5				10						15	
Asn	Thr	Ile	Ser	Gln	Ser	Pro	Gly	Trp	Ala	Gln	Thr	Gln	Leu	Ala	Glu
				20				25						30	
Val	Thr	Ile	Ala	Cys	Lys	Val	Asn	His	Gln	Gly	Gly	Ser	Val	Gln	Leu
				35				40						45	
Pro	Glu	Ser	Asp	Ile	Thr	Val	His	Val	Pro	Gln	Gly	His	Val	Ala	Val
				50				55						60	
Gly	Glu	Phe	Gln	Glu	Val	Ser	Leu	Arg	Ala	Phe	Leu	Asp	Pro	Pro	His
				65				70						75	
Met	Leu	Asn	His	Asp	Leu	Ser	Cys	Thr	Val	Ser	Pro	Leu	Leu	Glu	Ile
				85				90						95	
Met	Leu	Gly	Asn	Leu	Asn	Thr	Met	Glu	Ala	Leu	Leu	Leu	Glu	Met	Lys
				100				105						110	
Ile	Gly	Ala	Glu	Val	Arg	Lys	Asp	Pro	Phe	Ser	Gln	Val	Met	Thr	Glu
				115				120						125	
Met	Val	Cys	Leu	His	Ser	Leu	Gly	Lys	Glu	Gly	Pro	Phe	Lys	Val	Leu
				130				135						140	
Ser	Asn	Cys	Tyr	Ile	Tyr	Lys	Asp	Thr	Ile	Gln	Val	Lys	Leu	Ile	Asp
				145				150						155	
Leu	Ser	Gln	Val	Met	Tyr	Leu	Val	Val	Ala	Ala	Gln	Ala	Lys	Ala	Leu
				165				170						175	
Pro	Ser	Pro	Ala	Ala	Thr	Ile	Trp	Asp	Tyr	Ile	His	Lys	Thr	Thr	Ser
				180				185						190	

Ile Gly Ile Tyr Gly Pro Lys Tyr Ile His Pro Ser Phe Thr Val Val
 195 200 205
 Leu Thr Val Cys Gly His Asn Tyr Met Pro Gly Gln Leu Thr Ile Ser
 210 215 220
 Asp Ile Lys Lys Gly Gly Lys Asn Ile Ser Pro Val Val Phe Gln Leu
 225 230 235 240
 Trp Gly Lys Gln Ser Phe Leu Leu Asp Lys Pro Gln Asp Leu Ser Ile
 245 250 255
 Ser Ile Phe Ser Cys Asp Pro Asp Phe Glu Val Lys Thr Glu Gly Glu
 260 265 270
 Arg Lys Glu Ile Lys Gln Lys Gln Leu Glu Ala Gly Glu Val Val His
 275 280 285
 Gln Gln Phe Leu Phe Ser Leu Val Glu His Arg Glu Met His Leu Phe
 290 295 300
 Asp Phe Cys Val Gln Val Glu Pro Pro Asn Gly Glu Pro Val Ala Gln
 305 310 315 320
 Phe Ser Ile Thr Thr Pro Asp Pro Thr Pro Asn Leu Lys Arg Leu Ser
 325 330 335
 Asn Leu Pro Gly Tyr Leu Gln Lys Lys Glu Glu Ile Lys Ser Ala Pro
 340 345 350
 Leu Ser Pro Lys Ile Leu Val Lys Tyr Pro Thr Phe Gln Asp Lys Thr
 355 360 365
 Leu Asn Phe Ser Asn Tyr Gly Val Thr Leu Lys Ala Val Leu Arg Gln
 370 375 380
 Ser Lys Ile Asp Tyr Phe Leu Glu Tyr Phe Lys Gly Asp Thr Ile Ala
 385 390 395 400
 Leu Leu Gly Glu Gly Lys Val Lys Ala Ile Gly Gln Ser Lys Val Lys
 405 410 415
 Glu Trp Tyr Val Gly Val Leu Arg Gly Lys Ile Gly Leu Val His Cys

420 425 430
Lys Asn Val Lys Val Ile Ser Lys Glu Gln Val Met Phe Met Ser Asp
435 440 445
Ser Val Phe Thr Thr Arg Asn Leu Leu Glu Gln Ile Val Leu Pro Leu
450 455 460
Lys Lys Leu Thr Tyr Ile Tyr Ser Val Val Leu Thr Leu Val Ser Glu
465 470 475 480
Lys Val Tyr Asp Trp Lys Val Leu Ala Asp Val Leu Gly Tyr Ser His
485 490 495
Leu Ser Leu Glu Asp Phe Asp Gln Ile Gln Ala Asp Lys Glu Ser Glu
500 505 510
Lys Val Ser Tyr Val Ile Lys Lys Leu Lys Glu Asp Cys His Thr Glu
515 520 525
Arg Asn Thr Arg Lys Phe Leu Tyr Glu Leu Ile Val Ala Leu Leu Lys
530 535 540
Met Asp Cys Gln Glu Leu Val Ala Arg Leu Ile Gln Glu Ala Ala Val
545 550 555 560
Leu Thr Ser Ala Val Lys Leu Gly Lys Gly Trp Arg Glu Leu Ala Glu
565 570 575
Lys Leu Val Arg Leu Thr Lys Gln Gln Met Glu Ala Tyr Glu Ile Pro
580 585 590
His Arg Gly Asn Thr Gly Asp Val Ala Val Glu Met Met Trp Lys Pro
595 600 605
Ala Tyr Asp Phe Leu Tyr Thr Trp Ser Ala His Tyr Gly Asn Asn Tyr
610 615 620
Arg Asp Val Leu Gln Asp Leu Gln Ser Ala Leu Asp Arg Met Lys Asn
625 630 635 640
Pro Val Thr Lys His Trp Arg Glu Leu Thr Gly Val Leu Ile Leu Val
645 650 655

Asn Ser Leu Glu Val Leu Arg Val Thr Ala Phe Ser Thr Ser Glu Glu

660

665

670

Val

<210> 3679

<211> 124

<212> PRT

<213> Homo sapiens

<400> 3679

Met Thr Gln Asn Ser Ser Ser Leu Gly Asp Arg Ile Ile Thr Pro Tyr

1

5

10

15

Thr Pro Pro Arg Ser Gln Pro Met Asn Lys His Leu Phe Val Ser Leu

20

25

30

Phe Thr Leu Phe Gln Thr Thr Glu Leu Asp Phe Ala Asn Lys Lys Ser

35

40

45

Cys Phe Leu Cys Leu Pro Leu Arg Ala Asp Gly Phe Pro Glu Met Pro

50

55

60

His Ser Pro Ala Gln Thr Glu Arg Met Gln Lys Leu Ala Lys Asp Pro

65

70

75

80

Pro His Ala Arg Ser Glu Asp Val Pro Asp His Leu Phe Phe Val Asp

85

90

95

Thr Ala Gly Leu Arg Glu Ile Val Cys Phe Cys Gly Val Leu Ser Leu

100

105

110

Arg Thr Ser Glu Gly Leu Met Arg Lys Glu Thr Ala

115

120

<210> 3680

<211> 206

<212> PRT

<213> Homo sapiens

<400> 3680

Met Asn Lys Cys Lys Glu Ile Asn Glu Glu Glu Ala Gly Val Arg Arg

1 5 10 15

Gly Val Phe Tyr Met Ser Arg Tyr His Ala Lys Val Leu Leu Gly Ala

20 25 30

Ile Ala Ser Ala Gly Gln Pro Ala Ser Pro Leu Arg Glu Val Ser Leu

35 40 45

Thr His Cys Pro Leu Leu Leu Gly Pro Ser Arg Ser His Ile Gln Gly

50 55 60

Leu Gly His Tyr Leu Ile Asn Glu Trp Val Val Arg Met Ser Lys Gln

65 70 75 80

Gly Leu Thr Gln Arg Ser Gly Val Thr Gln Pro Gln Lys Leu Arg Val

85 90 95

Ser Ile Gly Ile Glu Gly Pro Arg Asn Val Phe Phe Val Asp Val Ser

100 105 110

Leu Leu Gln Arg Thr Thr Pro Ala Ser Arg Pro Arg Asn Val Gly Lys

115 120 125

Gly Lys Ala Trp Leu Val Leu Val Glu Met Glu Met Leu Val Thr Val

130 135 140

Glu Glu Cys Pro Pro Ser Asp Ser Gln Trp Gly Gly Ala Leu Gly Pro

145 150 155 160

Cys His Cys Pro Arg Thr Ser Gly Lys Ser Ala Arg Gly Pro Gln Pro

165 170 175

Phe Pro Ala Arg Arg Pro Gly Arg Arg Leu Val Leu Thr Ser Met Arg

180

185

190

Phe Leu Asp Gly Thr Ala Ser Leu Leu Ser Lys Pro Phe Leu

195

200

205

<210> 3681

<211> 709

<212> PRT

<213> Homo sapiens

<400> 3681

Met Ile Ala Ser Lys Gln Arg Gln Phe Thr Glu Val Phe Arg Ile Met

1

5

10

15

Ser Ser Thr Phe Ser Gln Ser Arg Phe Leu Tyr Ala Ala Val Val Thr

20

25

30

Asp Ser Pro Glu Asn Asp Ile Pro Met Glu Ile Thr Thr Ala Glu Pro

35

40

45

Gln Val Ser Glu Ala Val Tyr Asp Cys Val Ile Cys Gly Gln Ser Gly

50

55

60

Pro Ser Ser Glu Asp Arg Pro Thr Gly Leu Val Val Leu Leu Gln Ala

65

70

75

80

Ser Ser Val Leu Gly Gln Cys Arg Asp Asn Val Glu Pro Lys Lys Leu

85

90

95

Pro Ile Ser Glu Glu Glu Gln Ile Tyr Pro Trp Asp Thr Cys Ala Ala

100

105

110

Val His Asp Val Arg Leu Ser Leu Leu Gln Arg Tyr Phe Lys Asp Ser

115

120

125

Ser Cys Leu Leu Ala Val Ser Ile Gly Trp Glu Gly Gly Val Tyr Val

130	135	140
Gln Thr Cys Gly His Thr Leu His Ile Asp Cys His Lys Ser Tyr Met		
145	150	155
Glu Ser Leu Arg Asn Asp Gln Val Leu Gln Gly Phe Ser Val Asp Lys		160
	165	170
Gly Glu Phe Thr Cys Pro Leu Cys Arg Gln Phe Ala Asn Ser Val Leu		175
	180	185
Pro Cys Tyr Pro Gly Ser Asn Val Glu Asn Asn Pro Trp Gln Arg Pro		190
	195	200
Ser Asn Lys Ser Ile Gln Asp Leu Ile Lys Glu Val Glu Glu Leu Gln		205
	210	215
Gly Arg Pro Gly Ala Phe Pro Ser Glu Thr Asn Leu Ser Lys Glu Met		220
	225	230
Glu Ser Val Met Lys Asp Ile Lys Asn Thr Thr Gln Lys Lys Tyr Arg		235
	245	250
Asp Tyr Ser Lys Thr Pro Gly Ser Pro Asp Asn Asp Phe Leu Phe Met		255
	260	265
Tyr Ser Val Ala Arg Thr Asn Leu Glu Leu Glu Leu Ile His Arg Gly		270
	275	280
Gly Asn Leu Cys Ser Gly Gly Ala Ser Thr Ala Gly Lys Arg Ser Cys		285
	290	295
Leu Asn Gln Leu Phe His Val Leu Ala Leu His Met Arg Leu Tyr Ser		300
	305	310
Ile Asp Ser Glu Tyr Asn Pro Trp Arg Lys Leu Thr Gln Leu Glu Glu		315
	325	330
Met Asn Pro Gln Leu Gly Tyr Glu Glu Gln Gln Pro Glu Val Pro Ile		335
	340	345
Leu Tyr His Asp Val Thr Ser Leu Leu Leu Ile Gln Ile Leu Met Met		350
	355	360
		365

Pro Gln Pro Leu Arg Lys Asp His Phe Thr Cys Ile Val Lys Val Leu
370 375 380
Phe Thr Leu Leu Tyr Thr Gln Ala Leu Ala Ala Leu Ser Val Lys Cys
385 390 395 400
Ser Glu Glu Asp Arg Ser Ala Trp Lys His Ala Gly Ala Leu Lys Lys
405 410 415
Ser Thr Cys Asp Ala Glu Lys Ser Tyr Glu Val Leu Leu Ser Phe Val
420 425 430
Ile Ser Glu Leu Phe Lys Gly Lys Leu Tyr His Glu Glu Gly Thr Gln
435 440 445
Glu Cys Ala Met Val Asn Pro Ile Ala Trp Ser Pro Glu Ser Met Glu
450 455 460
Lys Cys Leu Gln Asp Phe Cys Leu Pro Phe Leu Arg Ile Thr Ser Leu
465 470 475 480
Leu Gln His His Leu Phe Gly Glu Asp Leu Pro Ser Cys Gln Glu Glu
485 490 495
Glu Glu Phe Ser Val Leu Ala Ser Cys Leu Gly Leu Leu Pro Thr Phe
500 505 510
Tyr Gln Thr Glu His Pro Phe Ile Ser Ala Ser Cys Leu Asp Trp Pro
515 520 525
Val Pro Ala Phe Asp Ile Ile Thr Gln Trp Cys Phe Glu Ile Lys Ser
530 535 540
Phe Thr Glu Arg His Ala Glu Gln Gly Lys Ala Leu Leu Ile Gln Glu
545 550 555 560
Ser Lys Trp Lys Leu Pro His Leu Leu Gln Leu Pro Glu Asn Tyr Asn
565 570 575
Thr Ile Phe Gln Tyr Tyr His Arg Lys Thr Cys Ser Val Cys Thr Lys
580 585 590
Val Pro Lys Asp Pro Ala Val Cys Leu Val Cys Gly Thr Phe Val Cys

595 600 605
 Leu Lys Gly Leu Cys Cys Lys Gln Gln Ser Tyr Cys Glu Cys Val Leu
 610 615 620
 His Ser Gln Asn Cys Gly Ala Gly Thr Gly Ile Phe Leu Leu Ile Asn
 625 630 635 640
 Ala Ser Val Ile Ile Ile Ile Arg Gly His Arg Phe Cys Leu Trp Gly
 645 650 655
 Ser Val Tyr Leu Asp Ala His Gly Glu Glu Asp Arg Asp Leu Arg Arg
 660 665 670
 Gly Lys Pro Leu Tyr Ile Cys Lys Glu Arg Tyr Lys Val Leu Glu Gln
 675 680 685
 Gln Trp Ile Ser His Thr Phe Asp His Ile Asn Lys Arg Trp Gly Pro
 690 695 700
 His Tyr Asn Gly Leu
 705

<210> 3682

<211> 194

<212> PRT

<213> Homo sapiens

<400> 3682

Met Gly Lys Leu Arg Pro Ser Arg Gly Arg Gly Phe Ala Asp Val Ser
 1 5 10 15
 Gln Gln Ile Arg Val Arg Asn Arg Pro Ser Trp Ala Cys Arg Arg Gly
 20 25 30
 Gly Pro Leu Gly Thr Leu Leu Ala Asn Ala Gly Pro Ser Thr Val Pro
 35 40 45

Val Thr Pro Thr Ala Gly Ser Cys Gln Pro Ser Pro Leu Ser Pro Gly
 50 55 60
 Gly Ser Asp Pro Pro Pro Pro Pro Arg Ala His Val Ser Pro Gln Glu
 65 70 75 80
 Ala Pro Leu Gly Gln Val Pro Gly Ala Glu Trp Leu Pro Pro Thr Arg
 85 90 95
 Gly Leu Leu Cys Lys Asp Val Ser Ser Ser Pro Gly Pro Ser Phe His
 100 105 110
 Leu Gly Gly Pro Gly Leu Pro Gly His Ala Gly Pro Cys Gly Pro Arg
 115 120 125
 Ala Arg Pro Ala Gln Gly Leu Ala Gly Arg Gly Gly Asn Val Gly Glu
 130 135 140
 Gly Ser Glu Ser Pro Leu Gly Thr Leu Pro Cys Ser Val Pro Ala Ser
 145 150 155 160
 Gln Gln Leu Leu Arg Gly Arg Ser His Leu Gln Gly Ser Leu Ala Ala
 165 170 175
 Leu Gly Glu Ala Arg Gly Gly Gly Ala Ala Phe Ser Trp Gly Gln Glu
 180 185 190
 Gly Pro

<210> 3683

<211> 1053

<212> PRT

<213> Homo sapiens

<400> 3683

Met Lys Leu Gly Asn Lys Ser Glu Leu Asn Met Glu Ser Asn Ser Asp

1	5	10	15
Ala Gln Asp Leu Val Asn Ser Gln Lys Ala Met Cys Asn Glu Thr Thr			
20	25	30	
Ser Phe Glu Lys Met Ala Pro Ser Phe Asp Lys Asp Ser Asn Leu Ser			
35	40	45	
Ser Asp Ser Thr Thr Val Asp Gly Ser Ser Met Ser Leu Ala Val Asp			
50	55	60	
Glu Gly Thr Gly Phe Ile Arg Cys Thr Val Ser Met Ser Leu Pro Lys			
65	70	75	80
Gln Leu Lys Leu Thr Cys Asn Glu His Leu Gln Ser Gly Arg Asn Leu			
85	90	95	
Gly Val Ser Ala Pro Gln Met Gln Lys Glu Ser Val Ile Lys Glu Glu			
100	105	110	
Asn Ser Leu Arg Ile Val Pro Lys Lys Pro Gln Arg His Ser Leu Pro			
115	120	125	
Ala Thr Gly Val Leu Lys Lys Ala Ala Ser Glu Glu Leu Leu Glu Lys			
130	135	140	
Ser Ser Tyr Pro Ser Ser Glu Glu Lys Ser Ser Glu Lys Ser Leu Glu			
145	150	155	160
Arg Asn His Leu Gln His Leu Cys Ala Gln Asn Arg Gly Val Ser Ser			
165	170	175	
Ser Phe Asp Met Pro Lys Arg Ala Ser Glu Lys Pro Val Trp Lys Leu			
180	185	190	
Pro His Pro Ile Leu Pro Phe Ser Gly Asn Pro Glu Phe Leu Lys Ser			
195	200	205	
Val Thr Val Ser Ser Asn Ser Glu Pro Ser Thr Ala Leu Thr Lys Pro			
210	215	220	
Arg Ala Lys Ser Leu Ser Ala Met Asp Val Glu Lys Cys Thr Lys Pro			
225	230	235	240

Cys Lys Asp Ser Thr Lys Lys Asn Ser Phe Lys Lys Leu Leu Ser Met			
245	250	255	
Lys Leu Ser Ile Cys Phe Met Lys Ser Asp Phe Gln Lys Phe Trp Ser			
260	265	270	
Lys Ser Ser Gln Leu Gly Asp Thr Thr Thr Gly His Leu Ser Ser Gly			
275	280	285	
Glu Gln Lys Gly Ile Glu Ser Asp Trp Gln Gly Leu Leu Val Gly Glu			
290	295	300	
Glu Lys Arg Ser Lys Pro Ile Lys Ala Tyr Ser Thr Glu Asn Tyr Ser			
305	310	315	320
Leu Glu Ser Gln Lys Lys Arg Lys Lys Ser Arg Gly Gln Thr Ser Ala			
325	330	335	
Ala Asn Gly Leu Arg Ala Glu Ser Leu Asp Asp Gln Met Leu Ser Arg			
340	345	350	
Glu Ser Ser Ser Gln Ala Pro Tyr Lys Ser Val Thr Ser Leu Cys Ala			
355	360	365	
Pro Glu Tyr Glu Asn Ile Arg His Tyr Glu Glu Ile Pro Glu Tyr Glu			
370	375	380	
Asn Leu Pro Phe Ile Met Ala Ile Arg Lys Thr Gln Glu Leu Glu Trp			
385	390	395	400
Gln Asn Ser Ser Ser Met Glu Asp Ala Asp Ala Asn Val Tyr Glu Val			
405	410	415	
Glu Glu Pro Tyr Glu Ala Pro Asp Gly Gln Leu Gln Leu Gly Pro Arg			
420	425	430	
His Gln His Ser Ser Ser Gly Ala Ser Gln Glu Glu Gln Asn Asp Leu			
435	440	445	
Gly Leu Gly Asp Leu Pro Ser Asp Glu Glu Glu Ile Ile Asn Ser Ser			
450	455	460	
Asp Glu Asp Asp Val Ser Ser Glu Ser Ser Lys Gly Glu Pro Asp Pro			

465 470 475 480
Leu Glu Asp Lys Gln Asp Glu Asp Asn Gly Met Lys Ser Lys Val His
 485 490 495
His Ile Ala Lys Glu Ile Met Ser Ser Glu Lys Val Phe Val Asp Val
 500 505 510
Leu Lys Leu Leu His Ile Asp Phe Arg Asp Ala Val Ala His Ala Ser
 515 520 525
Arg Gln Leu Gly Lys Pro Val Ile Glu Asp Arg Ile Leu Asn Gln Ile
 530 535 540
Leu Tyr Tyr Leu Pro Gln Leu Tyr Glu Leu Asn Arg Asp Leu Leu Lys
545 550 555 560
Glu Leu Glu Glu Arg Met Leu His Trp Thr Glu Gln Gln Arg Ile Ala
 565 570 575
Asp Ile Phe Val Lys Lys Gly Pro Tyr Leu Lys Met Tyr Ser Thr Tyr
 580 585 590
Ile Lys Glu Phe Asp Lys Asn Ile Ala Leu Leu Asp Glu Gln Cys Lys
 595 600 605
Lys Asn Pro Gly Phe Ala Ala Val Val Arg Glu Phe Glu Met Ser Pro
 610 615 620
Arg Cys Ala Asn Leu Ala Leu Lys His Tyr Leu Leu Lys Pro Val Gln
625 630 635 640
Arg Ile Pro Gln Tyr Arg Leu Leu Leu Thr Asp Tyr Leu Lys Asn Leu
 645 650 655
Ile Glu Asp Ala Gly Asp Tyr Arg Asp Thr Gln Asp Ala Leu Ala Val
 660 665 670
Val Ile Glu Val Ala Asn His Ala Asn Asp Thr Met Lys Gln Gly Asp
 675 680 685
Asn Phe Gln Lys Leu Met Gln Ile Gln Tyr Ser Leu Asn Gly His His
 690 695 700

Glu Ile Val Gln Pro Gly Arg Val Phe Leu Lys Glu Gly Ile Leu Met
705 710 715 720
Lys Leu Ser Arg Lys Val Met Gln Pro Arg Met Phe Phe Leu Phe Asn
725 730 735
Asp Ala Leu Leu Tyr Thr Thr Pro Val Gln Ser Gly Met Tyr Lys Leu
740 745 750
Asn Asn Met Leu Ser Leu Ala Gly Met Lys Val Arg Lys Pro Thr Gln
755 760 765
Glu Ala Tyr Gln Asn Glu Leu Lys Ile Glu Ser Val Glu Arg Ser Phe
770 775 780
Ile Leu Ser Ala Ser Ser Ala Thr Glu Arg Asp Glu Trp Leu Glu Ala
785 790 795 800
Ile Ser Arg Ala Ile Glu Glu Tyr Ala Lys Lys Arg Ile Thr Phe Cys
805 810 815
Pro Ser Arg Ser Leu Asp Glu Ala Asp Ser Glu Asn Lys Glu Glu Val
820 825 830
Ser Pro Leu Gly Ser Lys Ala Pro Ile Trp Ile Pro Asp Thr Arg Ala
835 840 845
Thr Met Cys Met Ile Cys Thr Ser Glu Phe Thr Leu Thr Trp Arg Arg
850 855 860
His His Cys Arg Ala Cys Gly Lys Ile Val Cys Gln Ala Cys Ser Ser
865 870 875 880
Asn Lys Tyr Gly Leu Asp Tyr Leu Lys Asn Gln Pro Ala Arg Val Cys
885 890 895
Glu His Cys Phe Gln Glu Leu Gln Lys Leu Asp His Gln His Ser Pro
900 905 910
Arg Ile Gly Ser Pro Gly Asn His Lys Ser Pro Ser Ser Ala Leu Ser
915 920 925
Ser Val Leu His Ser Ile Pro Ser Gly Arg Lys Gln Lys Lys Ile Pro

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Glu Asp Pro Gln Ser Pro Pro Pro Leu Pro Ala Glu Lys Pro Ile Gly
50 55 60
Asn Thr Phe Ser Thr Val Ser Gly Lys Leu Ser Asn Val Glu Arg Thr
65 70 75 80
Arg Asn Leu Glu Ser Asn His Pro Gly Gln Thr Gly Gly Phe Val Arg
85 90 95
Val Pro Pro Arg Leu Pro Pro Arg Pro Val Asn Gly Lys Thr Ile Pro
100 105 110
Thr Gln Gln Pro Pro Thr Lys Val Pro Pro Glu Arg Pro Pro Pro Pro
115 120 125
Lys Leu Ser Ala Thr Arg Arg Ser Asn Lys Lys Leu Pro Phe Asn Arg
130 135 140
Ser Ser Ser Asp Met Asp Leu Gln Lys Lys Gln Ser Asn Leu Ala Thr
145 150 155 160
Gly Leu Ser Lys Ala Lys Ser Gln Val Phe Lys Asn Gln Asp Pro Val
165 170 175
Leu Pro Pro Arg Pro Lys Pro Gly His Pro Leu Tyr Ser Lys Tyr Met
180 185 190
Arg Gly Asp Val Leu Val Met Leu Lys Gln Thr Glu Asn Asn Tyr Leu
195 200 205
Glu Cys Gln Lys Gly Glu Asp Thr Gly Arg Val His Leu Ser Gln Met
210 215 220
Lys Ile Ile Thr Pro Leu Asp Glu His Leu Arg Ser Arg Pro Asn Asp
225 230 235 240
Pro Ser His Ala Gln Lys Pro Val Asp Ser Gly Ala Pro His Ala Val
245 250 255
Val Leu His Asp Phe Pro Ala Glu Gln Val Asp Asp Leu Asn Leu Thr
260 265 270
Ser Gly Glu Ile Val Tyr Leu Leu Glu Lys Ile Asp Thr Asp Trp Tyr

275	280	285
Arg Gly Asn Cys Arg Asn Gln Ile Gly Ile Phe Pro Ala Asn Tyr Val		
290	295	300
Lys Val Ile Ile Asp Ile Pro Glu Gly Gly Asn Gly Lys Arg Glu Cys		
305	310	315
Val Ser Ser His Cys Val Lys Gly Ser Arg Cys Val Ala Arg Phe Glu		
325	330	335
Tyr Ile Gly Glu Gln Lys Asp Glu Leu Ser Phe Ser Glu Gly Glu Ile		
340	345	350
Ile Ile Leu Lys Glu Tyr Val Asn Glu Glu Trp Ala Arg Gly Glu Val		
355	360	365
Arg Gly Arg Thr Gly Ile Phe Pro Leu Asn Phe Val Glu Pro Val Glu		
370	375	380
Asp Tyr Pro Thr Ser Gly Ala Asn Val Leu Ser Thr Lys Val Pro Leu		
385	390	395
Lys Thr Lys Lys Glu Asp Ser Gly Ser Asn Ser Gln Val Asn Ser Leu		
405	410	415
Pro Ala Glu Trp Cys Glu Ala Leu His Ser Phe Thr Ala Glu Thr Ser		
420	425	430
Asp Asp Leu Ser Phe Lys Arg Gly Asp Arg Ile Gln Ile Leu Glu Arg		
435	440	445
Leu Asp Ser Asp Trp Cys Arg Gly Arg Leu Gln Asp Arg Glu Gly Ile		
450	455	460
Phe Pro Ala Val Phe Val Arg Pro Cys Pro Ala Glu Ala Lys Ser Met		
465	470	475
Leu Ala Ile Val Pro Lys Gly Arg Lys Ala Lys Ala Leu Tyr Asp Phe		
485	490	495
Arg Gly Glu Asn Glu Asp Glu Leu Ser Phe Lys Ala Gly Asp Ile Ile		
500	505	510

Thr Glu Leu Glu Ser Val Asp Asp Asp Trp Met Ser Gly Glu Leu Met

515

520

525

Gly Lys Ser Gly Ile Phe Pro Lys Asn Tyr Ile Gln Phe Leu Gln Ile

530

535

540

Ser

545

<210> 3685

<211> 646

<212> PRT

<213> Homo sapiens

<400> 3685

Met Asn Glu Cys Asn Val His Lys Glu Gly Tyr Asn Glu Leu Asn Gln

1

5

10

15

Tyr Leu Thr Thr Thr Gln Ser Lys Ile Phe Gln Cys Asp Lys Tyr Val

20

25

30

Lys Val Phe His Lys Leu Leu Asn Ser Asn Arg His Asn Thr Lys His

35

40

45

Thr Gly Lys Lys Pro Phe Lys Cys Lys Lys Cys Gly Lys Ser Phe Cys

50

55

60

Met Leu Leu His Leu Cys Gln His Lys Arg Ile His Ile Arg Glu Asn

65

70

75

80

Ser Tyr Arg Cys Glu Glu Cys Gly Lys Ala Phe Ile Trp Phe Ser Thr

85

90

95

Leu Thr Arg His Arg Arg Val His Thr Gly Glu Lys Ser Tyr Lys Tyr

100

105

110

Glu Cys Gly Lys Ser Phe Asn Gln Asp Ser Asn Leu Thr Thr His Lys

115 120 125
Arg Ile His Thr Gly Gln Lys Pro Tyr Lys Cys Glu Glu Cys Gly Thr
130 135 140
Ser Phe Tyr Gln Phe Ser Tyr Leu Thr Arg His Lys Leu Ile His Thr
145 150 155 160
Arg Glu Lys Pro Tyr Lys Cys Glu Gln Tyr Gly Lys Thr Phe Asn Gln
165 170 175
Ser Ser Thr Leu Ile Gly His Lys Ile Ile His Asn Gly Glu Lys Pro
180 185 190
Tyr Lys Cys Glu Glu Cys Gly Lys Ala Leu Ser Ile Phe Ser Thr Pro
195 200 205
Thr Lys His Lys Ile Ile His Thr Glu Glu Lys Ser His Arg Cys Glu
210 215 220
Glu Tyr Cys Lys Ala Tyr Lys Glu Ser Ser His Leu Thr Thr His Lys
225 230 235 240
Arg Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Glu Glu Cys Gly Lys
245 250 255
Ala Phe Ser Ile Phe Ser Thr Leu Thr Lys His Lys Ile Ile His Thr
260 265 270
Glu Glu Lys Ser His Arg Cys Glu Glu Cys Gly Lys Ala Tyr Lys Glu
275 280 285
Ser Ser His Val Thr Thr His Lys Arg Ile His Thr Gly Glu Lys Pro
290 295 300
Tyr Lys Cys Glu Glu Cys Gly Lys Thr Phe Ser Val Phe Ser Ile Leu
305 310 315 320
Thr Lys His Lys Ile Ile His Thr Glu Glu Lys Pro Tyr Lys Cys Glu
325 330 335
Glu Cys Gly Lys Ala Phe Lys Arg Ser Ser Thr Leu Thr Lys His Arg
340 345 350

Ile Ile His Thr Glu Glu Lys Pro Tyr Lys Cys Glu Glu Cys Gly Lys
 355 360 365
 Ala Phe Asn Gln Ser Ser Thr Leu Ser Ile His Lys Ile Ile His Thr
 370 375 380
 Gly Glu Lys Pro Tyr Lys Cys Glu Glu Cys Gly Lys Ala Phe Lys Arg
 385 390 395 400
 Ser Ser Thr Leu Thr Ile His Lys Met Ile His Thr Gly Glu Lys Pro
 405 410 415
 Tyr Lys Cys Glu Glu Cys Gly Lys Ala Phe Asn Arg Ser Ser His Leu
 420 425 430
 Thr Thr His Lys Arg Ile His Thr Gly His Lys Pro Tyr Lys Cys Lys
 435 440 445
 Glu Cys Gly Lys Ser Phe Ser Val Phe Ser Thr Leu Thr Lys His Lys
 450 455 460
 Ile Ile His Thr Asp Lys Lys Pro Tyr Lys Cys Glu Glu Cys Gly Lys
 465 470 475 480
 Ala Phe Asn Arg Ser Ser Ile Leu Ser Ile His Lys Lys Ile His Thr
 485 490 495
 Gly Glu Lys Pro Tyr Lys Cys Glu Glu Cys Gly Lys Ala Phe Lys Arg
 500 505 510
 Ser Ser His Leu Ala Gly His Lys Gln Ile His Ser Val Gln Lys Pro
 515 520 525
 Tyr Lys Cys Glu Glu Cys Gly Lys Ala Phe Ser Ile Phe Ser Thr Leu
 530 535 540
 Thr Lys His Lys Ile Ile His Thr Glu Glu Lys Pro Tyr Lys Cys Glu
 545 550 555 560
 Lys Cys Gly Lys Thr Phe Tyr Arg Phe Ser Asn Leu Asn Thr His Lys
 565 570 575
 Ile Ile His Thr Gly Glu Lys Pro Cys Lys Cys Glu Glu Cys Gly Lys

580	585	590
Ala Phe Asn His Ser Ser Asn Leu Ile Lys His Lys Leu Ile His Thr		
595	600	605
Gly Asp Lys Pro Tyr Lys Cys Glu Ala Cys Gly Lys Ala Phe Arg Arg		
610	615	620
Ser Ser His Leu Ser Arg His Lys Ile Ile His Ile Gly Ile His Thr		
625	630	635
Glu Glu Thr Val Gln Lys		640
645		

<210> 3686

<211> 157

<212> PRT

<213> Homo sapiens

<400> 3686

Met Ala Met Glu Gly Tyr Trp Arg Phe Leu Ala Leu Leu Gly Ser Ala		
1	5	10
15		
Leu Leu Val Gly Phe Leu Ser Val Ile Phe Ala Leu Val Trp Val Leu		
20	25	30
His Tyr Arg Glu Gly Leu Gly Trp Asp Gly Ser Ala Leu Glu Phe Asn		
35	40	45
Trp His Pro Val Leu Met Val Thr Gly Phe Val Phe Ile Gln Gly Ile		
50	55	60
Ala Ser Phe Arg Phe Phe Ser Leu Ser Ala Ser Met Gly Ser Ala Phe		
65	70	75
80		
Ser Pro Ser Ile Ser His Ala His Thr Cys Leu Phe Trp Asn Cys His		
85	90	95

Leu Trp Asn Ser Asp Cys Asn Ser Thr Tyr Gly Ile Asp Arg Glu Thr
 100 105 110
 Asp Phe Phe Pro Glu Arg Ser Cys Ile Gln Tyr Ile Pro Ala Arg Arg
 115 120 125
 Cys Phe Arg Lys Tyr Ala Trp Pro Ser Asp Pro Gly Val Arg Gly Pro
 130 135 140
 His Phe Leu Asp Ser His Gln Thr Ala Met Glu Thr Ser
 145 150 155

<210> 3687

<211> 688

<212> PRT

<213> Homo sapiens

<400> 3687

Met Ala Ile Ser Pro Ser Leu Leu Pro Leu Ser Ser Pro Pro Asp Gly
 1 5 10 15
 Ile Pro Gln Phe Asn Arg Arg His His Cys Arg Arg Cys Gly Arg Leu
 20 25 30
 Val Cys Ser Ser Cys Ser Thr Lys Lys Met Val Val Glu Gly Cys Arg
 35 40 45
 Glu Asn Pro Ala Arg Val Cys Asp Gln Cys Tyr Ser Tyr Cys Asn Lys
 50 55 60
 Asp Val Pro Glu Glu Pro Ser Glu Lys Pro Glu Ala Leu Asp Ser Ser
 65 70 75 80
 Lys Ser Glu Ser Pro Pro Tyr Ser Phe Val Val Arg Val Pro Lys Ala
 85 90 95
 Asp Glu Val Glu Trp Ile Leu Asp Leu Lys Glu Glu Glu Asn Glu Leu

100	105	110	
Val Arg Ser Glu Phe Tyr Tyr Glu Gln Ala Pro Ser Ala Ser Leu Cys			
115	120	125	
Ile Ala Ile Leu Asn Leu His Arg Asp Ser Ile Ala Cys Gly His Gln			
130	135	140	
Leu Ile Glu His Cys Cys Arg Leu Ser Lys Gly Leu Thr Asn Pro Glu			
145	150	155	160
Val Asp Ala Gly Leu Leu Thr Asp Ile Met Lys Gln Leu Leu Phe Ser			
165	170	175	
Ala Lys Met Met Phe Val Lys Ala Gly Gln Ser Gln Asp Leu Ala Leu			
180	185	190	
Cys Asp Ser Tyr Ile Ser Lys Val Asp Val Leu Asn Ile Leu Val Ala			
195	200	205	
Ala Ala Tyr Arg His Val Pro Ser Leu Asp Gln Ile Leu Gln Pro Ala			
210	215	220	
Ala Val Thr Arg Leu Arg Asn Gln Leu Leu Glu Ala Glu Tyr Tyr Gln			
225	230	235	240
Leu Gly Val Glu Val Ser Thr Lys Thr Gly Leu Asp Thr Thr Gly Ala			
245	250	255	
Trp His Ala Trp Gly Met Ala Cys Leu Lys Ala Gly Asn Leu Thr Ala			
260	265	270	
Ala Arg Glu Lys Phe Ser Arg Cys Leu Lys Pro Pro Phe Asp Leu Asn			
275	280	285	
Gln Leu Asn His Gly Ser Arg Leu Val Gln Asp Val Val Glu Tyr Leu			
290	295	300	
Glu Ser Thr Val Arg Pro Phe Val Ser Leu Gln Asp Asp Asp Tyr Phe			
305	310	315	320
Ala Thr Leu Arg Glu Leu Glu Ala Thr Leu Arg Thr Gln Ser Leu Ser			
325	330	335	

Leu Ala Val Ile Pro Glu Gly Lys Ile Met Asn Asn Thr Tyr Tyr Gln
340 345 350
Glu Cys Leu Phe Tyr Leu His Asn Tyr Ser Thr Asn Leu Ala Ile Ile
355 360 365
Ser Phe Tyr Val Arg His Ser Cys Leu Arg Glu Ala Leu Leu His Leu
370 375 380
Leu Asn Lys Glu Ser Pro Pro Glu Val Phe Ile Glu Gly Ile Phe Gln
385 390 395 400
Pro Ser Tyr Lys Ser Gly Lys Leu His Thr Leu Glu Asn Leu Leu Glu
405 410 415
Ser Ile Asp Pro Thr Leu Glu Ser Trp Gly Lys Tyr Leu Ile Ala Ala
420 425 430
Cys Gln His Leu Gln Lys Lys Asn Tyr Tyr His Ile Leu Tyr Glu Leu
435 440 445
Gln Gln Phe Met Lys Asp Gln Val Arg Ala Ala Met Thr Cys Ile Arg
450 455 460
Phe Phe Ser His Lys Ala Lys Ser Tyr Thr Glu Leu Gly Glu Lys Leu
465 470 475 480
Ser Trp Leu Leu Lys Ala Lys Asp His Leu Lys Ile Tyr Leu Gln Glu
485 490 495
Thr Ser Arg Ser Ser Gly Arg Lys Lys Thr Thr Phe Phe Arg Lys Lys
500 505 510
Met Thr Ala Ala Asp Val Ser Arg His Met Asn Thr Leu Gln Leu Gln
515 520 525
Met Glu Val Thr Arg Phe Leu His Arg Cys Glu Ser Ala Gly Thr Ser
530 535 540
Gln Ile Thr Thr Leu Pro Leu Pro Thr Leu Phe Gly Asn Asn His Met
545 550 555 560
Lys Met Asp Val Ala Cys Lys Val Met Leu Gly Gly Lys Asn Val Glu

<210> 3688

<211> 162

<212> PRT

<213> Homo sapiens

<400> 3688

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Ser Ser Ser Arg Glu Arg Arg Ala Cys Glu Thr Asp Thr Glu Glu Thr
 50 55 60
 Ala Thr Gly Glu Ser Thr Gln Gly Glu Arg Lys Ala Arg Ala Leu Pro
 65 70 75 80
 Cys Cys Gly Ser Gly Leu Phe Tyr His Pro Trp Gly His His Arg Pro
 85 90 95
 Arg Thr Phe Leu Leu Gly Ala Cys Ser Thr Ala Pro Pro Asp Arg Ser
 100 105 110
 Gly Leu Arg Glu Val Cys Trp Ile Thr Lys Met Arg Leu Gly Gly Gly
 115 120 125
 Gly Ser Arg Glu Glu Leu Ala His Arg Ser Gln Cys Arg Pro Asp Pro
 130 135 140
 Thr Gly Ala Gly Leu Thr Gln Gly Glu Ser Leu Gly Leu Leu Ser Gln
 145 150 155 160
 Ala Gly

<210> 3689

<211> 491

<212> PRT

<213> Homo sapiens

<400> 3689

Met Asn Ser Met Glu Ala Ala Val Gly Thr Glu Val Pro Leu Leu Asp
 1 5 10 15
 Asn Leu Gln His Cys Asn Ser Gly Asn Met Lys Pro Pro Leu Leu Val
 20 25 30
 Phe Ile Val Cys Leu Leu Trp Leu Lys Asp Ser His Cys Ala Pro Thr

35	40	45
Trp Lys Asp Lys Thr Ala Ile Ser Glu Asn Leu Lys Ser Phe Ser Glu		
50	55	60
Val Gly Glu Ile Asp Ala Asp Glu Glu Val Lys Lys Ala Leu Thr Gly		
65	70	75
Ile Lys Gln Met Lys Ile Met Met Glu Arg Lys Glu Lys Glu His Thr		
85	90	95
Asn Leu Met Ser Thr Leu Lys Lys Cys Arg Glu Glu Lys Gln Glu Ala		
100	105	110
Leu Lys Leu Leu Asn Glu Val Gln Glu His Leu Glu Glu Glu Glu Arg		
115	120	125
Leu Cys Arg Glu Ser Leu Ala Asp Ser Trp Gly Glu Cys Arg Ser Cys		
130	135	140
Leu Glu Asn Asn Cys Met Arg Ile Tyr Thr Thr Cys Gln Pro Ser Trp		
145	150	155
Ser Ser Val Lys Asn Lys Ile Glu Arg Phe Phe Arg Lys Ile Tyr Gln		
165	170	175
Phe Leu Phe Pro Phe His Glu Asp Asn Glu Lys Asp Leu Pro Ile Ser		
180	185	190
Glu Lys Leu Ile Glu Glu Asp Ala Gln Leu Thr Gln Met Glu Asp Val		
195	200	205
Phe Ser Gln Leu Thr Val Asp Val Asn Ser Leu Phe Asn Arg Ser Phe		
210	215	220
Asn Val Phe Arg Gln Met Gln Gln Glu Phe Asp Gln Thr Phe Gln Ser		
225	230	235
His Phe Ile Ser Asp Thr Asp Leu Thr Glu Pro Tyr Phe Phe Pro Ala		
245	250	255
Phe Ser Lys Glu Pro Met Thr Lys Ala Asp Leu Glu Gln Cys Trp Asp		
260	265	270

Ile Pro Asn Phe Phe Gln Leu Phe Cys Asn Phe Ser Val Ser Ile Tyr
 275 280 285
 Glu Ser Val Ser Glu Thr Ile Thr Lys Met Leu Glu Ala Ile Glu Asp
 290 295 300
 Leu Pro Lys Gln Asp Lys Ala Pro Asp His Gly Gly Leu Ile Ser Lys
 305 310 315 320
 Met Leu Pro Gly Gln Asp Arg Gly Leu Cys Gly Glu Leu Asp Gln Asn
 325 330 335
 Leu Ser Arg Cys Phe Lys Phe His Glu Lys Cys Gln Lys Cys Gln Ala
 340 345 350
 His Leu Ser Glu Asp Cys Pro Asp Val Pro Ala Leu His Thr Glu Leu
 355 360 365
 Asp Glu Ala Ile Arg Leu Val Asn Val Ser Asn Gln Gln Tyr Gly Gln
 370 375 380
 Ile Leu Gln Met Thr Arg Lys His Leu Glu Asp Thr Ala Tyr Leu Val
 385 390 395 400
 Glu Lys Met Arg Gly Gln Phe Gly Trp Val Ser Glu Leu Ala Asn Gln
 405 410 415
 Ala Pro Glu Thr Glu Ile Ile Phe Asn Ser Ile Gln Val Val Pro Arg
 420 425 430
 Ile His Glu Gly Asn Ile Ser Lys Gln Asp Glu Thr Met Met Thr Asp
 435 440 445
 Leu Ser Ile Leu Pro Ser Ser Asn Phe Thr Leu Lys Ile Pro Leu Glu
 450 455 460
 Glu Ser Ala Glu Ser Ser Asn Phe Ile Gly Tyr Val Val Ala Lys Ala
 465 470 475 480
 Leu Gln His Phe Lys Glu His Phe Lys Thr Trp
 485 490

<210> 3690

<211> 911

<212> PRT

<213> Homo sapiens

<400> 3690

Met Cys Ser His Phe Thr Gln Asp Phe Leu Pro Val Gln Gly Ile Glu

1 5 10 15

Asp Ser Phe His Lys Leu Ile Leu Arg Arg Tyr Glu Lys Cys Gly His

20 25 30

Asp Asn Leu Gln Leu Arg Lys Gly Cys Lys Ser Met Asn Val Cys Lys

35 40 45

Val Gln Lys Gly Val Tyr Asn Gly Ile Asn Lys Cys Leu Ser Asn Thr

50 55 60

Gln Ser Lys Ile Phe Gln Cys Asn Ala Arg Val Lys Val Phe Ser Lys

65 70 75 80

Phe Ala Asn Ser Asn Lys Asp Lys Thr Arg His Thr Gly Glu Lys His

85 90 95

Phe Lys Cys Asn Glu Cys Gly Lys Ser Phe Gln Lys Phe Ser Asp Leu

100 105 110

Thr Gln His Lys Gly Ile His Ala Gly Glu Lys Pro Tyr Thr Cys Glu

115 120 125

Glu Arg Gly Lys Asp Phe Gly Trp Tyr Thr Asp Leu Asn Gln His Lys

130 135 140

Lys Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Glu Glu Cys Gly Lys

145 150 155 160

Ala Phe Asn Arg Ser Thr Asn Leu Thr Ala His Lys Arg Ile His Asn

165 170 175

Arg Glu Lys Ala Tyr Thr Gly Glu Asp Arg Asp Arg Ala Phe Gly Trp
180 185 190
Ser Thr Asn Leu Asn Glu Tyr Lys Lys Ile His Thr Gly Asp Lys Pro
195 200 205
Tyr Lys Cys Lys Glu Cys Gly Lys Ala Phe Met His Ser Ser His Leu
210 215 220
Asn Lys His Glu Lys Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Lys
225 230 235 240
Glu Cys Gly Lys Val Ile Ser Ser Ser Ser Ser Phe Ala Lys His Lys
245 250 255
Arg Ile His Thr Gly Glu Lys Pro Phe Lys Cys Leu Glu Cys Gly Lys
260 265 270
Ala Phe Asn Ile Ser Thr Thr Leu Thr Lys His Arg Arg Ile His Thr
275 280 285
Gly Glu Lys Pro Tyr Thr Cys Glu Val Cys Gly Lys Ala Phe Arg Gln
290 295 300
Ser Ala Asn Leu Tyr Val His Arg Arg Ile His Thr Gly Glu Lys Pro
305 310 315 320
Tyr Thr Cys Gly Glu Cys Gly Lys Thr Phe Arg Gln Ser Ala Asn Leu
325 330 335
Tyr Val His Arg Arg Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Glu
340 345 350
Asp Cys Gly Lys Ala Phe Gly Arg Tyr Thr Ala Leu Asn Gln His Lys
355 360 365
Lys Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Glu Glu Cys Gly Lys
370 375 380
Ala Phe Asn Ser Ser Thr Asn Leu Thr Ala His Lys Arg Ile His Thr
385 390 395 400
Arg Glu Lys Pro Tyr Thr Cys Glu Asp Arg Gly Arg Ala Phe Gly Leu

	405	410	415
Ser Thr Asn Leu Asn Glu Tyr Lys Lys Ile His Thr Gly Asp Lys Pro			
	420	425	430
Tyr Lys Cys Lys Glu Cys Gly Lys Ala Phe Ile His Ser Leu His Leu			
	435	440	445
Asn Lys His Glu Lys Ile His Thr Gly Lys Lys Pro Tyr Lys Cys Lys			
	450	455	460
Gln Cys Gly Lys Val Ile Thr Ser Ser Ser Ser Phe Ala Lys His Lys			
465	470	475	480
Arg Ile His Thr Gly Glu Lys Pro Phe Glu Cys Leu Glu Cys Gly Lys			
	485	490	495
Ala Phe Thr Ser Ser Thr Thr Leu Thr Lys His Arg Arg Ile His Thr			
	500	505	510
Gly Glu Lys Pro Tyr Thr Cys Glu Val Cys Gly Lys Ala Phe Arg Gln			
	515	520	525
Ser Ala Ile Leu Tyr Val His Arg Arg Ile His Thr Gly Glu Lys Pro			
	530	535	540
Tyr Thr Cys Glu Glu Cys Gly Lys Thr Phe Arg Gln Ser Ala Asn Leu			
545	550	555	560
Tyr Val His Arg Arg Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Glu			
	565	570	575
Glu Cys Gly Lys Ala Phe Gly Arg Tyr Thr Asp Leu Asn Gln His Lys			
	580	585	590
Lys Ile His Thr Gly Glu Lys Leu Tyr Lys Cys Glu Glu Cys Gly Lys			
	595	600	605
Asp Phe Val Trp Tyr Thr Asp Leu Asn Gln Gln Lys Lys Ile Tyr Thr			
	610	615	620
Gly Glu Lys Pro Tyr Lys Cys Glu Glu Cys Gly Lys Ala Phe Ala Pro			
625	630	635	640

Ser Thr Asp Leu Asn Gln His Thr Lys Ile Leu Thr Gly Glu Gln Ser
645 650 655
Tyr Lys Cys Glu Glu Cys Gly Lys Ala Phe Gly Trp Ser Ile Ala Leu
660 665 670
Asn Gln His Lys Lys Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Glu
675 680 685
Glu Cys Gly Lys Ala Phe Ser Arg Ser Arg Asn Leu Thr Thr His Arg
690 695 700
Arg Val His Thr Arg Glu Lys Pro Tyr Lys Cys Glu Asp Arg Gly Arg
705 710 715 720
Ser Phe Gly Trp Ser Thr Asn Leu Asn Glu Tyr Lys Lys Ile His Thr
725 730 735
Gly Asp Lys Leu Tyr Lys Cys Lys Glu Cys Gly Lys Val Phe Lys Gln
740 745 750
Ser Ser His Leu Asn Arg His Glu Lys Ile His Thr Gly Lys Lys Pro
755 760 765
Tyr Lys Cys Lys Glu Cys Gly Lys Val Ile Thr Ser Ser Ser Ser Phe
770 775 780
Ala Lys His Lys Arg Ile His Thr Gly Glu Lys Pro Phe Lys Cys Leu
785 790 795 800
Glu Cys Gly Lys Ala Phe Thr Ser Ser Thr Thr Leu Thr Lys His Arg
805 810 815
Arg Ile His Thr Gly Glu Lys Pro Tyr Thr Cys Glu Glu Cys Gly Lys
820 825 830
Ala Phe Arg Gln Ser Ala Ile Leu Tyr Val His Arg Arg Ile His Thr
835 840 845
Gly Glu Lys Pro Tyr Thr Cys Gly Glu Cys Gly Lys Thr Phe Arg Gln
850 855 860
Ser Ala Asn Leu Tyr Ala His Lys Lys Ile His Thr Gly Glu Lys Pro

865	870	875	880
Tyr Thr Cys Gly Asp Cys Gly Lys Thr Phe Arg Gln Ser Ala Asn Leu			
	885	890	895
Tyr Ala His Lys Lys Ile His Thr Gly Asp Lys Thr Ile Gln Val			
900	905	910	

<210> 3691

<211> 127

<212> PRT

<213> Homo sapiens

<400> 3691

Met Ala Ala Gly Lys Glu Arg Met Arg Lys Met Gln Lys Gln Lys Ser			
1	5	10	15
Leu Ile Lys Pro Ser Asp Leu Val Lys Leu Ile His Tyr Asn Glu Asn			
	20	25	30
Ser Ser Gly Glu Thr Ala Ser Met Ile Gln Leu Phe His Leu Gly Pro			
35	40	45	
Ser His Ser Met Trp Glu Leu Trp Glu Tyr Asn Ser Arg Gly Asp Ser			
50	55	60	
Gly Gly Asp Thr Ala Lys Pro Tyr Tyr Ser Ala Pro Gly Pro Ser Gln			
65	70	75	80
Ile Leu Tyr Leu Tyr Ile Ser Glu Pro Ile Met His Ser Gln Arg Ser			
	85	90	95
Pro Lys Val Leu Thr His Phe Ser Ile Asn Ser Lys Val His Ser Pro			
100	105	110	
Lys Ser His Leu Arg Gln Gly Lys Ser Leu Leu Pro Ile Ser Leu			
115	120	125	

<210> 3692

<211> 724

<212> PRT

<213> Homo sapiens

<400> 3692

Met Lys Ser Ala Lys Gly Ile Glu Asn Leu Ala Phe Val Pro Ser Ser
1 5 10 15
Pro Asp Ile Leu Arg Arg Leu Ser Ala Ser Pro Ser Gln Ile Glu Val
20 25 30
Ser Ala Leu Ser Ser Asp Pro Gln Arg Glu Asn Ser Gln Pro Gln Glu
35 40 45
Leu Gln Lys Pro Gln Glu Pro Gln Lys Ser Pro Glu Pro Ser Leu Pro
50 55 60
Ser Ala Pro Pro Asn Val Ser Glu Glu Lys Leu Arg Ser Leu Ser Leu
65 70 75 80
Ser Glu Phe Glu Glu Gly Ser Tyr Gly Trp Arg Asn Phe His Pro Gln
85 90 95
Cys Leu Gln Arg Cys Asn Thr Pro Gly Gly Phe Leu Leu His Tyr Cys
100 105 110
Leu Leu Ala Val Thr Gln Gly Ile Val Val Asn Gly Leu Val Asn Ile
115 120 125
Ser Ile Ser Thr Val Glu Lys Arg Tyr Glu Met Lys Ser Ser Leu Thr
130 135 140
Gly Leu Ile Ser Ser Ser Tyr Asp Ile Ser Phe Cys Leu Leu Ser Leu
145 150 155 160
Phe Val Ser Phe Phe Gly Glu Arg Gly His Lys Pro Arg Trp Leu Ala

165 170 175
Phe Ala Ala Phe Met Ile Gly Leu Gly Ala Leu Val Phe Ser Leu Pro
180 185 190
Gln Phe Phe Ser Gly Glu Tyr Lys Leu Gly Ser Leu Phe Glu Asp Thr
195 200 205
Cys Val Thr Thr Arg Asn Ser Thr Ser Cys Thr Ser Ser Thr Ser Ser
210 215 220
Leu Ser Asn Tyr Leu Tyr Val Phe Ile Leu Gly Gln Leu Leu Leu Gly
225 230 235 240
Ala Gly Gly Thr Pro Leu Tyr Thr Leu Gly Thr Ala Phe Leu Asp Asp
245 250 255
Ser Val Pro Thr His Lys Ser Ser Leu Tyr Ile Gly Thr Gly Tyr Ala
260 265 270
Met Ser Ile Leu Gly Pro Ala Ile Gly Tyr Val Leu Gly Gly Gln Leu
275 280 285
Leu Thr Ile Tyr Ile Asp Val Ala Met Gly Glu Ser Thr Asp Val Thr
290 295 300
Glu Asp Asp Pro Arg Trp Leu Gly Ala Trp Trp Ile Gly Phe Leu Leu
305 310 315 320
Ser Trp Ile Phe Ala Trp Ser Leu Ile Ile Pro Phe Ser Cys Phe Pro
325 330 335
Lys His Leu Pro Gly Thr Ala Glu Ile Gln Ala Gly Lys Thr Ser Gln
340 345 350
Ala His Gln Ser Asn Ser Asn Ala Asp Val Lys Phe Gly Lys Ser Ile
355 360 365
Lys Asp Phe Pro Ala Ala Leu Lys Asn Leu Met Lys Asn Ala Val Phe
370 375 380
Met Cys Leu Val Leu Ser Thr Ser Ser Glu Ala Leu Ile Thr Thr Gly
385 390 395 400

Phe Ala Thr Phe Leu Pro Lys Phe Ile Glu Asn Gln Phe Gly Leu Thr
 405 410 415
 Ser Ser Phe Ala Ala Thr Leu Gly Gly Ala Val Leu Ile Pro Gly Ala
 420 425 430
 Ala Leu Gly Gln Ile Leu Gly Gly Phe Leu Val Ser Lys Phe Arg Met
 435 440 445
 Thr Cys Lys Asn Thr Met Lys Phe Ala Leu Phe Thr Ser Gly Val Ala
 450 455 460
 Leu Thr Leu Ser Phe Val Phe Met Tyr Ala Lys Cys Glu Asn Glu Pro
 465 470 475 480
 Phe Ala Gly Val Ser Glu Ser Tyr Asn Gly Thr Gly Glu Leu Gly Asn
 485 490 495
 Leu Ile Ala Pro Cys Asn Ala Asn Cys Asn Cys Ser Arg Ser Tyr Tyr
 500 505 510
 Tyr Pro Val Cys Gly Asp Gly Val Gln Tyr Phe Ser Pro Cys Phe Ala
 515 520 525
 Gly Cys Ser Asn Pro Val Ala His Arg Lys Pro Lys Val Tyr Tyr Asn
 530 535 540
 Cys Ser Cys Ile Glu Arg Lys Thr Glu Ile Thr Ser Thr Ala Glu Thr
 545 550 555 560
 Phe Gly Phe Glu Ala Lys Ala Gly Lys Cys Glu Thr His Cys Ala Lys
 565 570 575
 Leu Pro Ile Phe Leu Cys Ile Phe Phe Ile Val Ile Ile Phe Thr Phe
 580 585 590
 Met Ala Gly Thr Pro Ile Thr Val Ser Ile Leu Arg Cys Val Asn His
 595 600 605
 Arg Gln Arg Ser Leu Ala Leu Gly Ile Gln Phe Met Val Leu Arg Leu
 610 615 620
 Leu Gly Thr Ile Pro Gly Pro Ile Ile Phe Gly Phe Thr Ile Asp Ser

625 630 635 640
 Thr Cys Ile Leu Trp Asp Ile Asn Asp Cys Gly Ile Lys Gly Ala Cys
 645 650 655
 Trp Ile Tyr Asp Asn Ile Lys Met Ala His Met Leu Val Ala Ile Ser
 660 665 670
 Val Thr Cys Lys Val Ile Thr Met Phe Phe Asn Gly Phe Ala Ile Phe
 675 680 685
 Leu Tyr Lys Pro Pro Pro Ser Ala Thr Asp Val Ser Phe His Lys Glu
 690 695 700
 Asn Ala Val Val Thr Asn Val Leu Ala Glu Gln Asp Leu Asn Lys Ile
 705 710 715 720
 Val Lys Glu Gly

<210> 3693

<211> 207

<212> PRT

<213> Homo sapiens

<400> 3693

Met Val Glu Leu Val Glu Gly Ala Arg Lys Leu Arg His Val Phe Leu
 1 5 10 15
 Phe Thr Asp Leu Leu Leu Cys Thr Lys Leu Lys Lys Gln Ser Gly Gly
 20 25 30
 Lys Thr Gln Gln Tyr Asp Cys Lys Trp Tyr Ile Pro Leu Thr Asp Leu
 35 40 45
 Ser Phe Gln Met Val Asp Glu Leu Glu Ala Val Pro Asn Ile Pro Leu
 50 55 60

Val Pro Asp Glu Glu Leu Asp Ala Leu Lys Ile Lys Ile Ser Gln Ile
 65 70 75 80
 Lys Ser Asp Ile Gln Arg Glu Lys Arg Ala Asn Lys Gly Ser Lys Ala
 85 90 95
 Thr Glu Arg Leu Lys Lys Lys Leu Ser Glu Gln Glu Ser Leu Leu Leu
 100 105 110
 Leu Met Ser Pro Ser Met Ala Phe Arg Val His Ser Arg Asn Gly Lys
 115 120 125
 Ser Tyr Thr Phe Leu Ile Ser Ser Asp Tyr Glu Arg Ala Glu Trp Arg
 130 135 140
 Glu Asn Ile Arg Glu Gln Gln Lys Lys Cys Phe Arg Ser Phe Ser Leu
 145 150 155 160
 Thr Ser Val Glu Leu Gln Met Leu Thr Asn Ser Cys Val Lys Leu Gln
 165 170 175
 Thr Val His Ser Ile Pro Leu Thr Ile Asn Lys Glu Gly Gly Pro Pro
 180 185 190
 Arg Phe Arg Val Gln Gly Thr Cys Arg Glu Gly Arg Gln Leu Ala
 195 200 205

<210> 3694

<211> 588

<212> PRT

<213> Homo sapiens

<400> 3694

Met Asn Asp Arg Leu Pro Gly Lys Lys Thr Thr Lys Leu Trp Val Pro
 1 5 10 15
 Asp Glu Glu Val Ser Pro Glu Thr Met Val Lys Ile Gln Ala Ile Lys

20	25	30
Met Met Val Arg Trp Leu Leu Gly	Met Lys Asn Asn His Ser Lys Ser	
35	40	45
Gly Thr Ser Thr Leu Arg Leu Leu Thr Thr Ile Leu His Ser Asp Gly		
50	55	60
Asp Leu Thr Glu Gln Gly Lys Ile Ser Lys Pro Asp Met Ser Arg Leu		
65	70	75
Arg Leu Ala Ala Gly Ser Ala Ile Val Lys Leu Ala Gln Glu Pro Cys		
85	90	95
Tyr His Glu Ile Ile Thr Leu Glu Gln Tyr Gln Leu Cys Ala Leu Ala		
100	105	110
Ile Asn Asp Glu Cys Tyr Gln Val Arg Gln Val Phe Ala Gln Lys Leu		
115	120	125
His Lys Gly Leu Ser Arg Leu Arg Leu Pro Leu Glu Tyr Met Ala Ile		
130	135	140
Cys Ala Leu Cys Ala Lys Asp Pro Val Lys Glu Arg Arg Ala His Ala		
145	150	155
Arg Gln Cys Leu Val Lys Asn Ile Asn Val Arg Arg Glu Tyr Leu Lys		
165	170	175
Gln His Ala Ala Val Ser Glu Lys Leu Leu Ser Leu Leu Pro Glu Tyr		
180	185	190
Val Val Pro Tyr Thr Ile His Leu Leu Ala His Asp Pro Asp Tyr Val		
195	200	205
Lys Val Gln Asp Ile Glu Gln Leu Lys Asp Val Lys Glu Cys Leu Trp		
210	215	220
Phe Val Leu Glu Ile Leu Met Ala Lys Asn Glu Asn Asn Ser His Ala		
225	230	235
Phe Ile Arg Lys Met Val Glu Asn Ile Lys Gln Thr Lys Asp Ala Gln		
245	250	255

Gly Pro Asp Asp Ala Lys Met Asn Glu Lys Leu Tyr Thr Val Cys Asp
 260 265 270
 Val Ala Met Asn Ile Ile Met Ser Lys Ser Thr Thr Tyr Ser Leu Glu
 275 280 285
 Ser Pro Lys Asp Pro Val Leu Pro Ala Arg Phe Phe Thr Gln Pro Asp
 290 295 300
 Lys Asn Phe Ser Asn Thr Lys Asn Tyr Leu Pro Pro Glu Met Lys Ser
 305 310 315 320
 Phe Phe Thr Pro Gly Lys Pro Lys Thr Thr Asn Val Leu Gly Ala Val
 325 330 335
 Asn Lys Pro Leu Ser Ser Ala Gly Lys Gln Ser Gln Thr Lys Ser Ser
 340 345 350
 Arg Met Glu Thr Val Ser Asn Ala Ser Ser Ser Pro Asn Pro Ser Ser
 355 360 365
 Pro Gly Arg Ile Lys Gly Arg Leu Asp Ser Ser Glu Met Asp His Ser
 370 375 380
 Glu Asn Glu Asp Tyr Thr Met Ser Ser Pro Leu Pro Gly Lys Lys Ser
 385 390 395 400
 Asp Lys Arg Asp Asp Ser Asp Leu Val Arg Ser Glu Leu Glu Lys Pro
 405 410 415
 Arg Gly Arg Lys Lys Thr Pro Val Thr Glu Gln Glu Glu Lys Leu Gly
 420 425 430
 Met Asp Asp Leu Thr Lys Leu Val Gln Glu Gln Lys Pro Lys Gly Ser
 435 440 445
 Arg Arg Ser Arg Lys Arg Gly His Thr Ala Ser Glu Ser Asp Glu Gln
 450 455 460
 Gln Trp Pro Glu Glu Lys Arg Leu Lys Glu Asp Ile Leu Glu Asn Glu
 465 470 475 480
 Asp Glu Gln Asn Ser Pro Pro Lys Lys Gly Lys Arg Gly Arg Pro Pro

	485		490		495										
Lys	Pro	Leu	Gly	Gly	Gly	Thr	Pro	Lys	Glu	Glu	Pro	Thr	Met	Lys	Thr
	500						505						510		
Ser	Lys	Lys	Gly	Ser	Lys	Lys	Lys	Ser	Gly	Pro	Pro	Ala	Pro	Glu	Glu
	515						520						525		
Glu	Glu	Glu	Glu	Glu	Arg	Gln	Ser	Gly	Asn	Thr	Glu	Gln	Lys	Ser	Lys
	530						535						540		
Ser	Lys	Gln	His	Arg	Val	Ser	Arg	Arg	Ala	Gln	Gln	Arg	Ala	Glu	Ser
545					550					555				560	
Pro	Glu	Ser	Ser	Ala	Ile	Glu	Ser	Thr	Gln	Ser	Thr	Pro	Gln	Lys	Gly
					565					570				575	
Arg	Gly	Arg	Pro	Ser	Lys	Thr	Pro	Ser	Pro	Ser	Gln				
	580								585						

<210> 3695

<211> 328

<212> PRT

<213> Homo sapiens

<400> 3695

Met	Gln	Cys	Val	Pro	Asp	Val	Tyr	Ile	Asp	Ser	Met	Gly	Tyr	Ala	Phe
1				5					10					15	
Thr	Leu	Pro	Leu	Phe	Lys	Tyr	Ile	Gly	Gly	Cys	Gln	Val	Gly	Ser	Tyr
				20					25					30	
Val	His	Tyr	Pro	Thr	Ile	Ser	Thr	Asp	Met	Leu	Ser	Val	Val	Lys	Asn
				35					40					45	
Gln	Asn	Ile	Gly	Phe	Asn	Asn	Ala	Ala	Phe	Ile	Thr	Arg	Asn	Pro	Phe
				50					55					60	

Leu Ser Lys Val Lys Leu Ile Tyr Tyr Tyr Leu Phe Ala Phe Ile Tyr
 65 70 75 80
 Gly Leu Val Gly Ser Cys Ser Asp Val Val Met Val Asn Ser Ser Trp
 85 90 95
 Thr Leu Asn His Ile Leu Ser Leu Trp Lys Ala Gly Asn Cys Thr Asn
 100 105 110
 Ile Val Tyr Pro Pro Cys Asp Val Gln Thr Phe Leu Asp Ile Pro Leu
 115 120 125
 His Glu Lys Lys Met Thr Pro Gly His Leu Leu Val Ser Val Gly Gln
 130 135 140
 Phe Arg Pro Glu Lys Asn His Pro Leu Gln Ile Arg Ala Phe Ala Lys
 145 150 155 160
 Leu Leu Asn Lys Lys Met Val Glu Ser Pro Pro Ser Leu Lys Leu Val
 165 170 175
 Leu Ile Gly Gly Cys Arg Asn Lys Asp Asp Glu Leu Arg Val Asn Gln
 180 185 190
 Leu Arg Arg Leu Ser Glu Asp Leu Gly Val Gln Glu Tyr Val Glu Phe
 195 200 205
 Lys Ile Asn Ile Pro Phe Asp Glu Leu Lys Asn Tyr Leu Ser Glu Ala
 210 215 220
 Thr Ile Gly Leu His Thr Met Trp Asn Glu His Phe Gly Ile Gly Val
 225 230 235 240
 Val Glu Cys Met Ala Ala Gly Thr Ile Ile Leu Ala His Asn Ser Gly
 245 250 255
 Gly Pro Lys Leu Asp Ile Val Val Pro His Glu Gly Asp Ile Thr Gly
 260 265 270
 Phe Leu Ala Glu Ser Glu Glu Asp Tyr Ala Glu Thr Ile Ala His Ile
 275 280 285
 Leu Ser Met Ser Ala Glu Lys Arg Leu Gln Ile Arg Lys Ser Ala Arg

290 295 300
 Ala Ser Val Ser Arg Phe Ser Asp Gln Glu Phe Glu Val Thr Phe Leu
 305 310 315 320
 Ser Ser Val Glu Lys Leu Phe Lys
 325

<210> 3696

<211> 1307

<212> PRT

<213> Homo sapiens

<400> 3696

Met Gly His Pro Gly Ser Arg Lys Phe Asn Ile Thr Glu Ser Val Leu
 1 5 10 15
 Gln Gly Leu Leu Lys Pro Leu Leu Lys Ser Thr Ser Val Gly Pro Leu
 20 25 30
 Tyr Ser Gly Cys Arg Leu Thr Leu Leu Arg Pro Glu Lys Asp Gly Val
 35 40 45
 Ala Thr Arg Val Asp Ala Ile Cys Thr His Arg Pro Asp Pro Lys Ile
 50 55 60
 Pro Gly Leu Asp Arg Gln Gln Leu Tyr Trp Glu Leu Ser Gln Leu Thr
 65 70 75 80
 His Ser Ile Thr Glu Leu Gly Pro Tyr Thr Leu Asp Arg Asp Ser Leu
 85 90 95
 Tyr Val Asn Gly Phe Thr Gln Arg Ser Ser Val Pro Thr Thr Ser Thr
 100 105 110
 Pro Gly Thr Phe Thr Val Gln Pro Glu Thr Ser Glu Thr Pro Ser Ser
 115 120 125

Leu Pro Gly Pro Thr Ala Thr Gly Pro Val Leu Leu Pro Phe Thr Leu
 130 135 140
 Asn Phe Thr Ile Ile Asp Leu Gln Tyr Glu Glu Asp Met His Arg Pro
 145 150 155 160
 Gly Ser Arg Lys Phe Asn Thr Thr Glu Arg Val Leu Gln Gly Leu Leu
 165 170 175
 Met Pro Leu Phe Lys Asn Thr Ser Val Ser Ser Leu Tyr Ser Gly Cys
 180 185 190
 Arg Leu Thr Leu Leu Arg Pro Glu Lys Asp Gly Ala Ala Thr Arg Val
 195 200 205
 Asp Ala Val Cys Thr His Arg Pro Asp Pro Lys Ser Pro Gly Leu Asp
 210 215 220
 Arg Glu Arg Leu Tyr Trp Lys Leu Ser Gln Leu Thr His Gly Ile Thr
 225 230 235 240
 Glu Leu Gly Pro Tyr Thr Leu Asp Arg His Ser Leu Tyr Val Asn Gly
 245 250 255
 Phe Thr His Gln Ser Ser Met Thr Thr Thr Arg Thr Pro Asp Thr Ser
 260 265 270
 Thr Met His Leu Ala Thr Ser Arg Thr Pro Ala Ser Leu Ser Gly Pro
 275 280 285
 Thr Thr Ala Ser Pro Leu Leu Val Leu Phe Thr Ile Asn Phe Thr Ile
 290 295 300
 Thr Asn Leu Arg Tyr Glu Glu Asn Met His His Pro Gly Ser Arg Lys
 305 310 315 320
 Phe Asn Thr Thr Glu Arg Val Leu Gln Gly Leu Leu Arg Pro Val Phe
 325 330 335
 Lys Asn Thr Ser Val Gly Pro Leu Tyr Ser Gly Cys Arg Leu Thr Leu
 340 345 350
 Leu Arg Pro Lys Lys Asp Gly Ala Ala Thr Lys Val Asp Ala Ile Cys

355	360	365
Thr Tyr Arg Pro Asp Pro Lys Ser Pro Gly Leu Asp Arg Glu Gln Leu		
370	375	380
Tyr Trp Glu Leu Ser Gln Leu Thr His Ser Ile Thr Glu Leu Gly Pro		
385	390	395
Tyr Thr Leu Asp Arg Asp Ser Leu Tyr Val Asn Gly Phe Thr Gln Arg		
405	410	415
Ser Ser Val Pro Thr Thr Ser Ile Pro Gly Thr Pro Thr Val Asp Leu		
420	425	430
Gly Thr Ser Gly Thr Pro Val Ser Lys Pro Gly Pro Ser Ala Ala Ser		
435	440	445
Pro Leu Leu Val Leu Phe Thr Leu Asn Phe Thr Ile Thr Asn Leu Arg		
450	455	460
Tyr Glu Glu Asn Met Gln His Pro Gly Ser Arg Lys Phe Asn Thr Thr		
465	470	475
Glu Arg Val Leu Gln Gly Leu Leu Arg Ser Leu Phe Lys Ser Thr Ser		
485	490	495
Val Gly Pro Leu Tyr Ser Gly Cys Arg Leu Thr Leu Leu Arg Pro Glu		
500	505	510
Lys Asp Gly Thr Ala Thr Gly Val Asp Ala Ile Cys Thr His His Pro		
515	520	525
Asp Pro Lys Ser Pro Arg Leu Asp Arg Glu Gln Leu Tyr Trp Glu Leu		
530	535	540
Ser Gln Leu Thr His Asn Ile Thr Glu Leu Gly Pro Tyr Ala Leu Asp		
545	550	555
Asn Asp Ser Leu Phe Val Asn Gly Phe Thr His Arg Ser Ser Val Ser		
565	570	575
Thr Thr Ser Thr Pro Gly Thr Pro Thr Val Tyr Leu Gly Ala Ser Lys		
580	585	590

Thr Pro Ala Ser Ile Phe Gly Pro Ser Ala Ala Ser His Leu Leu Ile
595 600 605

Leu Phe Thr Leu Asn Phe Thr Ile Thr Asn Leu Arg Tyr Glu Glu Asn
610 615 620

Met Trp Pro Gly Ser Arg Lys Phe Asn Thr Thr Glu Arg Val Leu Gln
625 630 635 640

Gly Leu Leu Arg Pro Leu Phe Lys Asn Thr Ser Val Gly Pro Leu Tyr
645 650 655

Ser Gly Cys Arg Leu Thr Leu Leu Arg Pro Glu Lys Asp Gly Glu Ala
660 665 670

Thr Gly Val Asp Ala Ile Cys Thr His Arg Pro Asp Pro Thr Gly Pro
675 680 685

Gly Leu Asp Arg Glu Gln Leu Tyr Leu Glu Leu Ser Gln Leu Thr His
690 695 700

Ser Ile Thr Glu Leu Gly Pro Tyr Thr Leu Asp Arg Asp Ser Leu Tyr
705 710 715 720

Phe Asn Gly Phe Thr His Arg Ser Ser Val Pro Thr Thr Ser Thr Gly
725 730 735

Val Val Ser Glu Glu Pro Phe Thr Leu Asn Phe Thr Ile Asn Asn Leu
740 745 750

Arg Tyr Met Ala Asp Met Gly Gln Pro Gly Ser Leu Lys Phe Asn Ile
755 760 765

Thr Asp Asn Val Met Gln His Leu Leu Ser Pro Leu Phe Gln Arg Ser
770 775 780

Ser Leu Gly Ala Arg Tyr Thr Gly Cys Arg Val Ile Ala Leu Arg Ser
785 790 795 800

Val Lys Asn Gly Ala Glu Thr Arg Val Asp Leu Leu Cys Thr Tyr Leu
805 810 815

Gln Pro Leu Ser Gly Pro Gly Leu Pro Ile Lys Gln Val Phe His Glu

820 825 830
Leu Ser Gln Gln Thr His Gly Ile Thr Arg Leu Gly Pro Tyr Ser Leu
835 840 845
Asp Lys Asp Ser Leu Tyr Leu Asn Gly Tyr Asn Glu Pro Gly Pro Asp
850 855 860
Glu Pro Pro Thr Thr Met Gly Tyr His Leu Lys Thr Leu Thr Leu Asn
865 870 875 880
Phe Thr Ile Ser Asn Leu Gln Tyr Ser Pro Asp Met Gly Lys Gly Ser
885 890 895
Ala Thr Phe Asn Ser Thr Glu Gly Val Leu Gln His Leu Leu Arg Pro
900 905 910
Leu Phe Gln Lys Ser Ser Met Gly Pro Phe Tyr Leu Gly Cys Gln Leu
915 920 925
Ile Ser Leu Arg Pro Glu Lys Asp Gly Ala Ala Thr Gly Val Asp Thr
930 935 940
Thr Cys Thr Tyr His Pro Asp Pro Val Gly Pro Gly Leu Asp Ile Gln
945 950 955 960
Gln Leu Tyr Trp Glu Leu Ser Gln Leu Thr His Gly Val Thr Gln Leu
965 970 975
Gly Phe Tyr Val Leu Asp Arg Asp Ser Leu Phe Ile Asn Gly Tyr Ala
980 985 990
Pro Gln Asn Leu Ser Ile Arg Gly Glu Tyr Gln Ile Asn Phe His Ile
995 1000 1005
Val Asn Trp Asn Leu Ser Asn Pro Asp Pro Thr Ser Ser Glu Tyr Ile
1010 1015 1020
Thr Leu Leu Arg Asp Ile Gln Asp Lys Val Thr Thr Leu Tyr Lys Gly
1025 1030 1035 1040
Ser Gln Leu His Asp Thr Phe Arg Phe Cys Leu Val Thr Asn Leu Thr
1045 1050 1055

Met Asp Ser Val Leu Val Thr Val Lys Ala Leu Phe Ser Ser Asn Leu			
1060	1065	1070	
Asp Pro Ser Leu Val Glu Gln Val Phe Leu Asp Lys Thr Leu Asn Ala			
1075	1080	1085	
Ser Phe His Trp Leu Gly Ser Thr Tyr Gln Leu Val Asp Ile His Val			
1090	1095	1100	
Thr Glu Met Glu Ser Ser Val Tyr Gln Pro Thr Ser Ser Ser Ser Thr			
1105	1110	1115	1120
Gln His Phe Tyr Leu Asn Phe Thr Ile Thr Asn Leu Pro Tyr Ser Gln			
1125	1130	1135	
Asp Lys Ala Gln Pro Gly Thr Thr Asn Tyr Gln Arg Asn Lys Arg Asn			
1140	1145	1150	
Ile Glu Asp Ala Leu Asn Gln Leu Phe Arg Asn Ser Ser Ile Lys Ser			
1155	1160	1165	
Tyr Phe Ser Asp Cys Gln Val Ser Thr Phe Arg Ser Val Pro Asn Arg			
1170	1175	1180	
His His Thr Gly Val Asp Ser Leu Cys Asn Phe Ser Pro Leu Ala Arg			
1185	1190	1195	1200
Arg Val Asp Arg Val Ala Ile Tyr Glu Glu Phe Leu Arg Met Thr Arg			
1205	1210	1215	
Asn Gly Thr Gln Leu Gln Asn Phe Thr Leu Asp Arg Ser Ser Val Leu			
1220	1225	1230	
Val Asp Gly Tyr Ser Pro Asn Arg Asn Glu Pro Leu Thr Gly Asn Ser			
1235	1240	1245	
Asp Leu Pro Phe Trp Ala Val Ile Leu Ile Gly Leu Ala Gly Leu Leu			
1250	1255	1260	
Gly Leu Ile Thr Cys Leu Ile Cys Gly Val Leu Val Thr Thr Arg Arg			
1265	1270	1275	1280
Arg Lys Lys Glu Gly Glu Tyr Asn Val Gln Gln Gln Cys Pro Gly Tyr			

1285 1290 1295
Tyr Gln Ser His Leu Asp Leu Glu Asp Leu Gln
1300 1305

<210> 3697

<211> 252

<212> PRT

<213> Homo sapiens

<400> 3697

Met Ser Ile His Phe Ser Ser Pro Val Phe Thr Ser Arg Ser Ala Ala
1 5 10 15
Phe Ser Gly Arg Gly Ala Gln Val Arg Leu Ser Ser Ala Arg Pro Gly
20 25 30
Gly Leu Gly Ser Ser Ser Leu Tyr Gly Leu Gly Ala Ser Arg Pro Arg
35 40 45
Val Ala Val Arg Ser Ala Tyr Gly Gly Pro Val Gly Ala Gly Ile Arg
50 55 60
Glu Val Thr Ile Asn Gln Ser Leu Leu Ala Pro Leu Arg Leu Asp Ala
65 70 75 80
Asp Pro Ser Leu Gln Arg Val Arg Gln Glu Glu Ser Glu Gln Lys Ser
85 90 95
Ala Lys Ser Ser Arg Leu Pro Asp Ile Phe Glu Ala Gln Ile Ala Gly
100 105 110
Leu Arg Gly Gln Leu Glu Ala Leu Gln Val Asp Gly Gly Arg Leu Glu
115 120 125
Ala Glu Leu Arg Ser Met Gln Asp Val Val Glu Asp Phe Lys Asn Lys
130 135 140

Tyr Glu Asp Glu Ile Asn Arg Arg Thr Ala Ala Glu Asn Glu Phe Val
 145 150 155 160
 Val Leu Lys Lys Asp Val Asp Ala Ser Tyr Met Ser Lys Val Glu Leu
 165 170 175
 Glu Ala Lys Val Asp Ala Leu Asn Asp Glu Ile Asn Phe Leu Arg Thr
 180 185 190
 Leu Asn Glu Thr Glu Leu Thr Glu Leu Gln Ser Gln Ile Ser Asp Thr
 195 200 205
 Ser Val Val Leu Ser Met Asp Asn Ser Arg Ser Leu Asp Leu Asp Gly
 210 215 220
 Ile Ile Ala Glu Val Lys Ala Gln Tyr Glu Glu Met Ala Lys Cys Ser
 225 230 235 240
 Arg Ala Glu Ala Glu Ala Trp Tyr Gln Thr Lys Val
 245 250

<210> 3698

<211> 100

<212> PRT

<213> Homo sapiens

<400> 3698

Met Gly Arg Leu Ala Gly Gly Gln Ala Pro Tyr Leu Trp Glu Gln Gly
 1 5 10 15
 Phe Ala Gln Pro Pro Trp Asp Ala Leu Gly Leu Leu Thr Ala Gln Asp
 20 25 30
 Pro Ser Arg Glu Ala Ala Trp Ile Gly Gly Ser Gly Leu Thr Ala Gly
 35 40 45
 Leu Gly Leu Glu Pro Ser Pro Cys Pro Ala Gln Ala Pro Ala Glu Pro

50 55 60
 Gly Ala Leu Ala Glu Ala Gly Leu Gly Ser Gly Ala Ala Gly Arg Pro
 65 70 75 80
 Pro Ile Ser His Ser Leu Gly Val Leu Arg Val Thr Gln Arg Thr Val
 85 90 95
 Lys Cys Trp Ile
 100

<210> 3699

<211> 525

<212> PRT

<213> Homo sapiens

<400> 3699

Met Ser Lys Ala Ser Pro Ser Ser Leu Leu Ala Lys Phe Ser Glu Asp
 1 5 10 15
 Thr Leu Ser Ser Tyr Thr Glu Ala Val Ser Ser Gln Glu Met Leu Arg
 20 25 30
 Cys Ile Trp Gly His Phe Leu Arg Val Leu Gly Gly Thr Ser Pro Thr
 35 40 45
 Leu Ser His Ser Ser Ser Leu Leu His Ser Leu Gly Ser Val Thr Val
 50 55 60
 Leu Cys Cys Val Asp Lys Gln Gly Ile Leu Ser Trp Pro Asn Pro Ser
 65 70 75 80
 Pro Glu Thr Val Leu Phe Phe Ser Gly Lys Val Glu Pro Pro His Ser
 85 90 95
 Ser His Glu Asp Leu Thr Asp Gly Leu Ser Thr Arg Ser Phe Cys His
 100 105 110

Pro Glu Val Glu Glu Glu Pro His Glu Arg Asp Ala Leu Leu Ala Gly
 115 120 125
 Ser Leu Asn Asn Thr Leu His Leu Ser Asn Glu Gln Glu Arg Gly Asp
 130 135 140
 Trp Pro Gly Glu Ala Pro Lys Pro Pro Glu Pro Tyr Ser His His Lys
 145 150 155 160
 Ala His Gly Arg Ser Lys His Pro Ser Gly Ser Asn Thr Gln Pro Gly
 165 170 175
 Met Glu Ser Asp Pro Tyr Glu Ala Glu Asp Phe Val Cys Asp Tyr His
 180 185 190
 Leu Glu Met Leu Ser Leu Ser Gln Asp Gln Gln Asn Pro Ser Cys Ile
 195 200 205
 Gln Phe Asp Asp Ser Asn Trp Gln Leu His Leu Thr Ser Leu Lys Pro
 210 215 220
 Leu Gly Leu Asn Val Leu Leu Asn Leu Cys Asp Ala Ser Val Thr Glu
 225 230 235 240
 Arg Leu Cys Arg Phe Ser Asp His Leu Cys Asn Ile Ala Leu Gln Glu
 245 250 255
 Ser His Ser Ala Val Leu Pro Val His Val Pro Trp Gly Leu Cys Glu
 260 265 270
 Leu Ala Arg Leu Ile Gly Phe Thr Pro Gly Ala Lys Glu Leu Phe Lys
 275 280 285
 Gln Glu Asn His Leu Ala Leu Tyr Arg Leu Pro Ser Ala Glu Thr Met
 290 295 300
 Lys Glu Thr Ser Leu Gly Arg Leu Ser Cys Val Thr Lys Arg Arg Pro
 305 310 315 320
 Pro Leu Ser His Met Ile Ser Leu Phe Ile Lys Asp Thr Thr Thr Ser
 325 330 335
 Thr Glu Gln Met Leu Ser His Gly Thr Ala Asp Val Val Leu Glu Ala

340 345 350
Cys Thr Asp Phe Trp Asp Gly Ala Asp Ile Tyr Pro Leu Ser Gly Ser
355 360 365
Asp Arg Lys Lys Val Leu Asp Phe Tyr Gln Arg Ala Cys Leu Ser Gly
370 375 380
Tyr Cys Ser Ala Phe Ala Tyr Lys Pro Met Asn Cys Ala Leu Ser Ser
385 390 395 400
Gln Leu Asn Gly Lys Cys Ile Glu Leu Val Gln Val Pro Gly Gln Ser
405 410 415
Ser Ile Phe Thr Met Cys Glu Leu Pro Ser Thr Ile Pro Ile Lys Gln
420 425 430
Asn Ala Arg Arg Ser Ser Trp Ser Ser Asp Glu Gly Ile Gly Glu Val
435 440 445
Leu Glu Lys Glu Asp Cys Met Gln Ala Leu Ser Gly Gln Ile Phe Met
450 455 460
Gly Met Val Ser Ser Gln Tyr Gln Ala Arg Leu Asp Ile Val Arg Leu
465 470 475 480
Ile Asp Gly Leu Val Asn Ala Cys Ile Arg Phe Val Tyr Phe Ser Leu
485 490 495
Glu Asp Glu Leu Lys Ser Lys Val Phe Ala Glu Lys Asn Gly Pro Gly
500 505 510
Asp Arg Leu Glu Leu Pro His Leu Pro His Thr Gln Trp
515 520 525

<210> 3700

<211> 1647

<212> PRT

<213> Homo sapiens

<400> 3700

Met	Gln	His	Pro	Gly	Ser	Arg	Lys	Phe	Asn	Thr	Thr	Glu	Arg	Val	Leu
1				5					10					15	
Gln	Gly	Leu	Leu	Lys	Pro	Leu	Phe	Lys	Ser	Thr	Ser	Val	Gly	Pro	Leu
			20					25					30		
Tyr	Ser	Gly	Cys	Arg	Leu	Thr	Leu	Leu	Arg	Pro	Glu	Lys	His	Gly	Ala
			35					40					45		
Ala	Thr	Gly	Val	Asp	Ala	Ile	Cys	Thr	Leu	Arg	Leu	Asp	Pro	Thr	Gly
			50					55					60		
Pro	Gly	Leu	Asp	Arg	Glu	Trp	Leu	Tyr	Trp	Glu	Leu	Ser	Gln	Leu	Thr
			65					70					75		80
Asn	Ser	Val	Thr	Glu	Leu	Gly	Pro	Tyr	Thr	Leu	Asp	Arg	Asp	Ser	Leu
						85				90				95	
Tyr	Val	Asn	Gly	Phe	Thr	His	Arg	Ser	Ser	Val	Pro	Thr	Thr	Ser	Ile
						100				105				110	
Pro	Gly	Thr	Ser	Ala	Val	His	Leu	Glu	Thr	Ser	Gly	Thr	Pro	Ala	Ser
						115				120				125	
Leu	Pro	Gly	His	Thr	Ala	Pro	Gly	Pro	Leu	Leu	Val	Pro	Phe	Thr	Leu
						130				135				140	
Asn	Phe	Thr	Ile	Thr	Asn	Leu	Gln	Tyr	Glu	Glu	Asp	Met	Arg	His	Pro
						145						150		155	160
Gly	Ser	Arg	Lys	Phe	Asn	Thr	Thr	Glu	Arg	Val	Leu	Gln	Gly	Leu	Leu
						165						170			175
Lys	Pro	Leu	Phe	Lys	Ser	Thr	Ser	Val	Gly	Pro	Leu	Tyr	Ser	Gly	Cys
						180						185			190
Arg	Leu	Thr	Leu	Leu	Arg	Pro	Glu	Lys	Arg	Gly	Ala	Ala	Thr	Gly	Val
						195						200			205
Asp	Thr	Ile	Cys	Thr	His	Arg	Leu	Asp	Pro	Leu	Asn	Pro	Gly	Leu	Asp

210 215 220
Arg Glu Gln Leu Tyr Trp Glu Leu Ser Lys Leu Thr His Gly Ile Ile
225 230 235 240
Glu Leu Gly Pro Tyr Leu Leu Asp Arg Gly Ser Leu Tyr Val Asn Gly
245 250 255
Phe Thr His Arg Asn Phe Val Pro Ile Thr Ser Thr Pro Gly Thr Ser
260 265 270
Thr Val His Leu Gly Thr Ser Glu Thr Pro Ser Ser Leu Pro Arg Pro
275 280 285
Ile Val Pro Gly Pro Leu Leu Val Pro Phe Thr Leu Asn Phe Thr Ile
290 295 300
Thr Asn Leu Gln Tyr Glu Glu Ala Met Arg His Pro Gly Ser Arg Lys
305 310 315 320
Phe Asn Thr Thr Glu Arg Val Leu Gln Gly Leu Leu Arg Pro Leu Phe
325 330 335
Lys Asn Thr Ser Ile Gly Pro Leu Tyr Ser Ser Cys Arg Leu Thr Leu
340 345 350
Leu Arg Pro Glu Lys Asp Lys Ala Ala Thr Arg Val Asp Ala Ile Cys
355 360 365
Thr His His Pro Asp Pro Gln Ser Pro Gly Leu Asn Arg Glu Gln Leu
370 375 380
Tyr Trp Glu Leu Ser Gln Leu Thr His Gly Ile Thr Glu Leu Gly Pro
385 390 395 400
Tyr Thr Leu Asp Arg Asp Ser Leu Tyr Val Asp Gly Phe Thr His Trp
405 410 415
Ser Pro Ile Pro Thr Thr Ser Thr Thr Gly Pro Leu Leu Met Pro Phe
420 425 430
Thr Leu Asn Phe Thr Ile Thr Asn Leu Gln Tyr Glu Glu Asn Met Gly
435 440 445

His Pro Gly Ser Arg Lys Phe Asn Ile Thr Glu Ser Val Leu Gln Gly
 450 455 460
 Leu Leu Lys Pro Leu Phe Lys Ser Thr Ser Val Gly Pro Leu Tyr Ser
 465 470 475 480
 Gly Cys Arg Leu Thr Leu Leu Arg Pro Glu Lys Asp Gly Val Ala Thr
 485 490 495
 Arg Val Asp Ala Ile Cys Thr His Arg Pro Asp Pro Lys Ile Pro Gly
 500 505 510
 Leu Asp Arg Gln Gln Leu Tyr Trp Glu Leu Ser Gln Leu Thr His Ser
 515 520 525
 Ile Thr Glu Leu Gly Pro Tyr Thr Leu Asp Arg Asp Ser Leu Tyr Val
 530 535 540
 Asn Gly Phe Thr Gln Arg Ser Ser Val Pro Thr Thr Ser Thr Pro Gly
 545 550 555 560
 Thr Phe Thr Val Gln Pro Glu Thr Ser Glu Thr Pro Ser Ser Leu Pro
 565 570 575
 Gly Pro Thr Ala Thr Gly Pro Val Leu Leu Pro Phe Thr Leu Asn Phe
 580 585 590
 Thr Ile Thr Asn Leu Gln Tyr Glu Glu Asp Met His Arg Pro Gly Ser
 595 600 605
 Arg Lys Phe Asn Thr Thr Glu Arg Val Leu Gln Gly Leu Leu Met Pro
 610 615 620
 Leu Phe Lys Asn Thr Ser Val Ser Ser Leu Tyr Ser Gly Cys Arg Leu
 625 630 635 640
 Thr Leu Leu Arg Pro Glu Lys Asp Gly Ala Ala Thr Arg Val Asp Ala
 645 650 655
 Val Cys Thr His Arg Pro Asp Pro Lys Ser Pro Gly Leu Asp Arg Glu
 660 665 670
 Arg Leu Tyr Trp Lys Leu Ser Gln Leu Thr His Gly Ile Thr Glu Leu

675	680	685
Gly Pro Tyr Thr Leu Asp Arg His Ser Leu Tyr Val Asn Gly Phe Thr		
690	695	700
His Gln Ser Ser Met Thr Thr Thr Arg Thr Pro Asp Thr Ser Thr Met		
705	710	715
His Leu Ala Thr Ser Arg Thr Pro Ala Ser Leu Ser Gly Pro Thr Thr		
725	730	735
Ala Ser Pro Leu Leu Val Leu Phe Thr Ile Asn Phe Thr Ile Thr Asn		
740	745	750
Leu Arg Tyr Glu Glu Asn Met His His Pro Gly Ser Arg Lys Phe Asn		
755	760	765
Thr Thr Glu Arg Val Leu Gln Gly Leu Leu Arg Pro Val Phe Lys Asn		
770	775	780
Thr Ser Val Gly Pro Leu Tyr Ser Gly Cys Arg Leu Thr Leu Leu Arg		
785	790	795
Pro Lys Lys Asp Gly Ala Ala Thr Lys Val Asp Ala Ile Cys Thr Tyr		
805	810	815
Arg Pro Asp Pro Lys Ser Pro Gly Leu Asp Arg Glu Gln Leu Tyr Trp		
820	825	830
Glu Leu Ser Gln Leu Thr His Ser Ile Thr Glu Leu Gly Pro Tyr Thr		
835	840	845
Leu Asp Arg Asp Ser Leu Tyr Val Asn Gly Phe Thr Gln Arg Ser Ser		
850	855	860
Val Pro Thr Thr Ser Ile Pro Gly Thr Pro Thr Val Asp Leu Gly Thr		
865	870	875
Ser Gly Thr Pro Val Ser Lys Pro Gly Pro Ser Ala Ala Ser Pro Leu		
885	890	895
Leu Val Leu Phe Thr Leu Asn Phe Thr Ile Thr Asn Leu Arg Tyr Glu		
900	905	910

Glu Asn Met Gln His Pro Gly Ser Arg Lys Phe Asn Thr Thr Glu Arg
915 920 925

Val Leu Gln Gly Leu Leu Arg Ser Leu Phe Lys Ser Thr Ser Val Gly
930 935 940

Pro Leu Tyr Ser Gly Cys Arg Leu Thr Leu Leu Arg Pro Glu Lys Asp
945 950 955 960

Gly Thr Ala Thr Gly Val Asp Ala Ile Cys Thr His His Pro Asp Pro
965 970 975

Lys Ser Pro Arg Leu Asp Arg Glu Gln Leu Tyr Trp Glu Leu Ser Gln
980 985 990

Leu Thr His Asn Ile Thr Glu Leu Gly Pro Tyr Ala Leu Asp Asn Asp
995 1000 1005

Ser Leu Phe Val Asn Gly Phe Thr His Arg Ser Ser Val Ser Thr Thr
1010 1015 1020

Ser Thr Ala Ser His Leu Leu Ile Leu Phe Thr Leu Asn Phe Thr Ile
1025 1030 1035 1040

Thr Asn Leu Arg Tyr Glu Glu Asn Met Trp Pro Gly Ser Arg Lys Phe
1045 1050 1055

Asn Thr Thr Glu Arg Val Leu Gln Gly Leu Leu Arg Pro Leu Phe Lys
1060 1065 1070

Asn Thr Ser Val Gly Pro Leu Tyr Ser Gly Cys Arg Leu Thr Leu Leu
1075 1080 1085

Arg Pro Glu Lys Asp Gly Glu Ala Thr Gly Val Asp Ala Ile Cys Thr
1090 1095 1100

His Arg Pro Asp Pro Thr Gly Pro Gly Leu Asp Arg Glu Gln Leu Tyr
1105 1110 1115 1120

Leu Glu Leu Ser Gln Leu Thr His Ser Ile Thr Glu Leu Gly Pro Tyr
1125 1130 1135

Thr Leu Asp Arg Asp Ser Leu Tyr Val Asn Gly Phe Thr His Arg Ser

1140	1145	1150	
Ser Val Pro Thr Thr Ser Thr Gly Val Val Ser Glu Glu Pro Phe Thr			
1155	1160	1165	
Leu Asn Phe Thr Ile Asn Asn Leu Arg Tyr Met Ala Asp Met Gly Gln			
1170	1175	1180	
Pro Gly Ser Leu Lys Phe Asn Ile Thr Asp Asn Val Met Lys His Leu			
1185	1190	1195	1200
Leu Ser Pro Leu Phe Gln Arg Ser Ser Leu Gly Ala Arg Tyr Thr Gly			
1205	1210	1215	
Cys Arg Val Ile Ala Leu Arg Ser Val Lys Asn Gly Ala Glu Thr Arg			
1220	1225	1230	
Val Asp Leu Leu Cys Thr Tyr Leu Gln Pro Leu Ser Gly Pro Gly Leu			
1235	1240	1245	
Pro Ile Lys Gln Val Phe His Glu Leu Ser Gln Gln Thr His Gly Ile			
1250	1255	1260	
Thr Arg Leu Gly Pro Tyr Ser Leu Asp Lys Asp Ser Leu Tyr Leu Asn			
1265	1270	1275	1280
Gly Tyr Asn Glu Pro Gly Pro Asp Glu Pro Pro Thr Thr Pro Lys Pro			
1285	1290	1295	
Ala Thr Thr Phe Leu Pro Pro Leu Ser Glu Ala Thr Thr Ala Met Gly			
1300	1305	1310	
Tyr His Leu Lys Thr Leu Thr Leu Asn Phe Thr Ile Ser Asn Leu Gln			
1315	1320	1325	
Tyr Ser Pro Asp Met Gly Lys Gly Ser Ala Thr Phe Asn Ser Thr Glu			
1330	1335	1340	
Gly Val Leu Gln His Leu Leu Arg Pro Leu Phe Gln Lys Ser Ser Met			
1345	1350	1355	1360
Gly Pro Phe Tyr Leu Gly Cys Gln Leu Ile Ser Leu Arg Pro Glu Lys			
1365	1370	1375	

Asp Gly Ala Ala Thr Gly Val Asp Thr Thr Cys Thr Tyr His Pro Asp
1380 1385 1390

Pro Val Gly Pro Gly Leu Asp Ile Gln Gln Leu Tyr Trp Glu Leu Ser
1395 1400 1405

Gln Leu Thr His Gly Val Thr Gln Leu Gly Phe Tyr Val Leu Asp Arg
1410 1415 1420

Asp Ser Leu Phe Ile Asn Gly Tyr Ala Pro Gln Asn Leu Ser Ile Arg
1425 1430 1435 1440

Gly Glu Tyr Gln Ile Asn Phe His Ile Val Asn Trp Asn Leu Ser Asn
1445 1450 1455

Pro Asp Pro Thr Ser Ser Glu Tyr Ile Thr Leu Leu Arg Asp Ile Gln
1460 1465 1470

Asp Lys Val Thr Thr Leu Tyr Lys Gly Ser Gln Leu His Asp Thr Phe
1475 1480 1485

Arg Phe Cys Leu Val Thr Asn Leu Thr Met Asp Ser Val Leu Val Thr
1490 1495 1500

Val Lys Ala Leu Phe Ser Ser Asn Leu Asp Pro Ser Leu Val Glu Gln
1505 1510 1515 1520

Val Phe Leu Asp Lys Thr Leu Asn Ala Ser Phe His Trp Leu Gly Ser
1525 1530 1535

Thr Tyr Gln Leu Val Asp Ile His Val Thr Glu Met Glu Ser Ser Val
1540 1545 1550

Tyr Gln Pro Thr Ser Ser Ser Ser Thr Gln His Phe Tyr Leu Asn Phe
1555 1560 1565

Thr Ile Thr Asn Leu Pro Tyr Ser Gln Asp Lys Ala Gln Pro Gly Thr
1570 1575 1580

Thr Asn Tyr Gln Arg Asn Lys Arg Asn Ile Glu Asp Ala Val Arg Arg
1585 1590 1595 1600

Gly Cys Ser Thr Asn Ser Ser Glu Thr Ala Ala Ser Arg Val Ile Phe

1605 1610 1615
 Leu Thr Val Lys Phe Gln His Ser Gly Leu Ser Pro Thr Gly Thr Thr
 1620 1625 1630
 Pro Gly Trp Thr Pro Cys Val Thr Ser Arg His Trp Leu Gly Glu
 1635 1640 1645

<210> 3701

<211> 119

<212> PRT

<213> Homo sapiens

<400> 3701

Met Thr Ala Phe Gly Gly Ser Ala Thr Val Ala Val Trp Thr Gly Ile
 1 5 10 15
 Leu Phe Phe His Ser Cys Ser Met Cys Pro Leu Ala Met Leu Ser Ala
 20 25 30
 His Leu Lys Glu Ile Phe Ser Asp Gly Gly Cys Ser Trp Trp Arg Pro
 35 40 45
 Trp Gly Asn Leu Pro Pro Lys Ser Gln Gly Val Ser Gly Thr Thr Cys
 50 55 60
 Cys Gly Trp Ala Ser Ser Leu Val Leu Leu Ser Leu Phe Pro Cys Pro
 65 70 75 80
 Gly Gln Pro Val Arg Ser Gln Asn Gly Ser Arg Gln Arg Glu Ala Ser
 85 90 95
 Val Gln Arg Ala Met Glu Ser Gly Val Met Glu His Ser Ala Cys Arg
 100 105 110
 Ala Ala Val Phe Pro Ser Leu
 115

<210> 3702

<211> 386

<212> PRT

<213> Homo sapiens

<400> 3702

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Met Asn Glu Pro Thr Glu Asn Arg Leu Gly Cys Ser Arg Thr Pro Glu
  1             5             10             15
Pro Asp Ile Arg Leu Arg Lys Gly His Gln Leu Asp Gly Thr Arg Arg
      20             25             30
Gly Asp Asn Asp Ser His Gln Gly Asp Leu Glu Pro Ile Leu Glu Ala
      35             40             45
Ser Val Leu Ser Ser His His Lys Lys Ser Ser Glu Glu His Glu Tyr
      50             55             60
Ser Asp Glu Ala Pro Gln Glu Asp Glu Gly Phe Met Gly Met Ser Pro
      65             70             75             80
Leu Leu Gln Ala His His Ala Met Glu Lys Met Glu Glu Phe Val Cys
      85             90             95
Lys Val Trp Glu Gly Arg Trp Arg Val Ile Pro His Asp Val Leu Pro
      100            105            110
Asp Trp Leu Lys Asp Asn Asp Phe Leu Leu His Gly His Arg Pro Pro
      115            120            125
Met Pro Ser Phe Arg Ala Cys Phe Lys Ser Ile Phe Arg Ile His Thr
      130            135            140
Glu Thr Gly Asn Ile Trp Thr His Leu Leu Gly Cys Val Phe Phe Leu
      145            150            155            160
Cys Leu Gly Ile Phe Tyr Met Phe Arg Pro Asn Ile Ser Phe Val Ala

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165 170 175
Pro Leu Gln Glu Lys Val Val Phe Gly Leu Phe Phe Leu Gly Ala Ile
180 185 190
Leu Cys Leu Ser Phe Ser Trp Leu Phe His Thr Val Tyr Cys His Ser
195 200 205
Glu Gly Val Ser Arg Leu Phe Ser Lys Leu Asp Tyr Ser Gly Ile Ala
210 215 220
Leu Leu Ile Met Gly Ser Phe Val Pro Trp Leu Tyr Tyr Ser Phe Tyr
225 230 235 240
Cys Asn Pro Gln Pro Cys Phe Ile Tyr Leu Ile Val Ile Cys Val Leu
245 250 255
Gly Ile Ala Ala Ile Ile Val Ser Gln Trp Asp Met Phe Ala Thr Pro
260 265 270
Gln Tyr Arg Gly Val Arg Ala Gly Val Phe Leu Gly Leu Gly Leu Ser
275 280 285
Gly Ile Ile Pro Thr Leu His Tyr Val Ile Ser Glu Gly Phe Leu Lys
290 295 300
Ala Ala Thr Ile Gly Gln Ile Gly Trp Leu Met Leu Met Ala Ser Leu
305 310 315 320
Tyr Ile Thr Gly Ala Ala Leu Tyr Ala Ala Arg Ile Pro Glu Arg Phe
325 330 335
Phe Pro Gly Lys Cys Asp Ile Trp Phe His Ser His Gln Leu Phe His
340 345 350
Ile Phe Val Val Ala Gly Ala Phe Val His Phe His Gly Val Ser Asn
355 360 365
Leu Gln Glu Phe Arg Phe Met Ile Gly Gly Gly Cys Ser Glu Glu Asp
370 375 380
Ala Leu
385

<210> 3703

<211> 705

<212> PRT

<213> Homo sapiens

<400> 3703

Met Phe Met Phe Cys Glu Trp Ala Phe Leu Ser Gly Ala Ala Leu Ser

1 5 10 15

Ser Leu Asp Lys Glu Gly Leu Ser Ala Leu Ser Trp Ala Cys Leu Lys

20 25 30

Gly His Arg Ala Val Val Gln Tyr Leu Val Glu Glu Gly Ala Ala Ile

35 40 45

Asp Gln Thr Asp Lys Asn Gly Arg Thr Pro Leu Asp Leu Ala Ala Phe

50 55 60

Tyr Gly Asp Ala Glu Thr Val Leu Tyr Leu Val Glu Lys Gly Ala Val

65 70 75 80

Ile Glu His Val Asp His Ser Gly Met Arg Pro Leu Asp Arg Ala Ile

85 90 95

Gly Cys Arg Asn Thr Ser Val Val Val Ala Leu Leu Arg Lys Gly Ala

100 105 110

Lys Leu Gly Asn Ala Ala Trp Ala Met Ala Thr Ser Lys Pro Asp Ile

115 120 125

Leu Ile Ile Leu Leu Gln Lys Leu Met Glu Glu Gly Asn Val Met Tyr

130 135 140

Lys Lys Gly Lys Met Lys Glu Ala Ala Gln Arg Tyr Gln Tyr Ala Leu

145 150 155 160

Arg Lys Phe Pro Arg Glu Gly Phe Gly Glu Asp Met Arg Pro Phe Asn

165	170	175
Glu Leu Arg Val Ser Leu Tyr Leu Asn Leu Ser Arg Cys Arg Arg Lys		
180	185	190
Thr Asn Asp Phe Gly Met Ala Glu Glu Phe Ala Ser Lys Ala Leu Glu		
195	200	205
Leu Lys Pro Lys Ser Tyr Glu Ala Phe Tyr Ala Arg Ala Arg Ala Lys		
210	215	220
Arg Asn Ser Arg Gln Phe Val Ala Ala Leu Ala Asp Leu Gln Glu Ala		
225	230	235
240		
Val Lys Leu Cys Pro Thr Asn Gln Glu Val Lys Arg Leu Leu Ala Arg		
245	250	255
Val Glu Glu Glu Cys Lys Gln Leu Gln Arg Ser Gln Gln Gln Lys Gln		
260	265	270
Gln Gly Pro Leu Pro Ala Pro Leu Asn Asp Ser Glu Asn Glu Glu Asp		
275	280	285
Thr Pro Thr Pro Gly Leu Ser Asp His Phe His Ser Glu Glu Thr Glu		
290	295	300
Glu Glu Glu Thr Ser Pro Gln Glu Glu Ser Val Ser Pro Thr Pro Arg		
305	310	315
320		
Ser Gln Pro Ser Ser Ser Val Pro Ser Ser Tyr Ile Arg Asn Leu Gln		
325	330	335
Glu Gly Leu Gln Ser Lys Gly Arg Pro Val Ser Pro Gln Ser Arg Ala		
340	345	350
Gly Ile Gly Lys Ser Leu Arg Glu Pro Val Ala Gln Pro Gly Leu Leu		
355	360	365
Leu Gln Pro Ser Lys Gln Ala Gln Ile Val Lys Thr Ser Gln His Leu		
370	375	380
Gly Ser Gly Gln Ser Ala Val Arg Asn Gly Ser Met Lys Val Gln Ile		
385	390	395
400		

Ser Ser Gln Asn Pro Pro Pro Ser Pro Met Pro Gly Arg Ile Ala Ala
 405 410 415
 Thr Pro Ala Gly Ser Arg Thr Gln His Leu Glu Gly Thr Gly Thr Phe
 420 425 430
 Thr Thr Arg Ala Gly Cys Gly His Phe Gly Asp Arg Leu Gly Pro Ser
 435 440 445
 Gln Asn Val Arg Leu Gln Cys Gly Glu Asn Gly Pro Ala His Pro Leu
 450 455 460
 Pro Ser Lys Thr Lys Thr Thr Glu Arg Leu Leu Ser His Ser Ser Val
 465 470 475 480
 Ala Val Asp Ala Ala Pro Pro Asn Gln Gly Gly Leu Ala Thr Cys Ser
 485 490 495
 Asp Val Arg His Pro Ala Ser Leu Thr Ser Ser Gly Ser Ser Gly Ser
 500 505 510
 Pro Ser Ser Ser Ile Lys Met Ser Ser Ser Thr Ser Ser Leu Thr Ser
 515 520 525
 Ser Ser Ser Phe Ser Asp Gly Phe Lys Val Gln Gly Pro Asp Thr Arg
 530 535 540
 Ile Lys Asp Lys Val Val Thr His Val Gln Ser Gly Thr Ala Glu His
 545 550 555 560
 Arg Pro Arg Asn Thr Pro Phe Met Gly Ile Met Asp Lys Thr Ala Arg
 565 570 575
 Phe Gln Gln Gln Ser Asn Pro Pro Ser Arg Ser Trp His Cys Pro Ala
 580 585 590
 Pro Glu Gly Leu Leu Thr Asn Thr Ser Ser Ala Ala Gly Leu Gln Ser
 595 600 605
 Ala Asn Thr Glu Lys Pro Ser Leu Met Gln Val Gly Gly Tyr Asn Asn
 610 615 620
 Gln Ala Lys Thr Cys Ser Val Ser Thr Leu Ser Ala Ser Val His Asn

625 630 635 640
 Gly Ala Gln Val Lys Glu Leu Glu Glu Ser Lys Cys Gln Ile Pro Val
 645 650 655
 His Ser Gln Glu Asn Arg Ile Thr Lys Thr Val Ser His Leu Tyr Gln
 660 665 670
 Glu Ser Ile Ser Lys Gln Gln Pro His Ile Ser Asn Glu Ala His Arg
 675 680 685
 Ser His Leu Thr Ala Ala Lys Pro Lys Arg Ser Phe Ile Glu Ser Asn
 690 695 700
 Val
 705

<210> 3704

<211> 157

<212> PRT

<213> Homo sapiens

<400> 3704

Met Ala Ile Ile Lys Lys Ser Gly Asn Asn Arg Cys Trp Arg Gly Cys
 1 5 10 15
 Gly Glu Ile Gly Thr Leu Ser His Cys Trp Trp Asp Cys Lys Leu Val
 20 25 30
 Gln Pro Leu Trp Lys Ser Val Trp Arg Phe Leu Arg Asp Leu Glu Leu
 35 40 45
 Glu Thr Pro Phe Asp Pro Ala Ile Pro Leu Leu Gly Ile Tyr Pro Lys
 50 55 60
 Asp Tyr Lys Ser Cys Cys Tyr Lys Asp Thr Cys Thr Arg Met Phe Ile
 65 70 75 80

Val Ala Leu Phe Thr Ile Ala Lys Thr Trp Asn Gln Pro Lys Cys Pro
 85 90 95
 Thr Met Ile Asp Trp Ile Lys Lys Thr Trp His Ile Tyr Thr Met Glu
 100 105 110
 Tyr Tyr Ala Ala Ile Lys Asn Asp Glu Phe Met Ser Phe Val Gly Thr
 115 120 125
 Trp Met Lys Leu Glu Ile Ile Ile Leu Ser Lys Leu Ser Gln Glu Gln
 130 135 140
 Lys Thr Lys His Arg Ile Phe Ser Leu Ile Gly Gly Asn
 145 150 155

<210> 3705

<211> 383

<212> PRT

<213> Homo sapiens

<400> 3705

Met Arg Lys Ile Glu Ala Trp His Ser Gln Met Ala Cys Ser Gly Tyr
 1 5 10 15
 Leu Leu Val Gly Thr Gly Ala Asn Ile Glu Val Trp Ser Tyr Ile Ser
 20 25 30
 Leu Pro Gln Val Leu Pro Ile Leu Pro Leu Cys Ile Val Pro Phe Phe
 35 40 45
 Pro His Ser Leu Cys Pro Ser Tyr Asn Ile Cys Glu Asp Cys Glu Ala
 50 55 60
 Gly Pro Tyr Gly His Asp Thr Asn His Val Leu Leu Lys Leu Arg Arg
 65 70 75 80
 Pro Val Val Gly Ser Ser Glu Pro Phe Cys His Ser Lys Tyr Ser Thr

	85		90		95
Pro Arg Leu Pro Ala Ala Leu Glu Gln Val Arg Leu Gln Lys Gln Val					
	100		105		110
Asp Lys Asn Phe Leu Lys Ala Glu Lys Gln Arg Leu Arg Ala Glu Lys					
	115		120		125
Lys Gln Arg Lys Ala Glu Val Lys Glu Leu Lys Lys Gln Leu Lys Leu					
	130		135		140
His Arg Lys Ile His Leu Trp Asn Ser Ile His Gly Leu Gln Ser Pro					
145		150		155	160
Lys Ser Pro Leu Gly Arg Pro Glu Ser Leu Leu Gln Ser Asn Thr Leu					
	165		170		175
Met Leu Pro Leu Gln Pro Cys Thr Ser Val Met Pro Met Leu Ser Ala					
	180		185		190
Ala Phe Val Asp Glu Asn Leu Pro Asp Gly Thr His Leu Gln Pro Gly					
	195		200		205
Thr Lys Phe Ile Lys His Trp Arg Met Lys Asn Thr Gly Asn Val Lys					
	210		215		220
Trp Ser Ala Asp Thr Lys Leu Lys Phe Met Trp Gly Asn Leu Thr Leu					
225		230		235	240
Ala Ser Thr Glu Lys Lys Asp Val Leu Val Pro Cys Leu Lys Ala Gly					
	245		250		255
His Val Gly Val Val Ser Val Glu Phe Ile Ala Pro Ala Leu Glu Gly					
	260		265		270
Thr Tyr Thr Ser His Trp Arg Leu Ser His Lys Gly Gln Gln Phe Gly					
	275		280		285
Pro Arg Val Trp Cys Ser Ile Ile Val Asp Pro Phe Pro Ser Glu Glu					
	290		295		300
Ser Pro Asp Asn Ile Glu Lys Gly Met Ile Ser Ser Ser Lys Thr Asp					
305		310		315	320

<210> 3706
<211> 411
<212> PRT
<213> Homo sapiens

出証特 2 0 0 4 - 3 0 5 9 6 6 1

100	105	110
Gly Leu Cys Leu Pro Lys Leu Phe Asn Pro Leu Ile Arg Leu Gln Leu		
115	120	125
Leu Thr Trp Thr Pro Leu Glu Ala Lys Cys Arg Asp Phe Glu Asn Met		
130	135	140
Leu Trp Phe Glu Ser Leu Leu Phe Tyr Gly Cys Glu Glu Arg Glu Gln		
145	150	155
Glu Lys Asp Asp Val Asp Val Ala Leu Leu Pro Thr Ile Val Glu Lys		
165	170	175
Val Ile Leu Pro Lys Leu Thr Val Ile Ala Glu Asn Met Trp Asp Pro		
180	185	190
Phe Ser Thr Thr Gln Thr Ser Arg Met Val Gly Ile Thr Leu Lys Leu		
195	200	205
Ile Asn Gly Tyr Pro Ser Val Val Asn Ala Glu Asn Lys Asn Thr Gln		
210	215	220
Val Tyr Leu Lys Ala Leu Leu Leu Arg Met Arg Arg Thr Leu Asp Asp		
225	230	235
Asp Val Phe Met Pro Leu Tyr Pro Lys Asn Val Leu Glu Asn Lys Asn		
245	250	255
Ser Gly Pro Tyr Leu Phe Phe Gln Arg Gln Phe Trp Ser Ser Val Lys		
260	265	270
Leu Leu Gly Asn Phe Leu Gln Trp Tyr Gly Ile Phe Ser Asn Lys Thr		
275	280	285
Leu Gln Glu Leu Ser Ile Asp Gly Leu Leu Asn Arg Tyr Ile Leu Met		
290	295	300
Ala Phe Gln Asn Ser Glu Tyr Gly Asp Asp Ser Ile Lys Lys Ala Gln		
305	310	315
Asn Val Ile Asn Cys Phe Pro Lys Gln Trp Phe Met Asn Leu Lys Gly		
325	330	335

Glu Arg Thr Ile Ser Gln Leu Glu Asn Phe Cys Arg Tyr Leu Val His
 340 345 350
 Leu Ala Asp Thr Ile Tyr Arg Asn Ser Ile Gly Cys Ser Asp Val Glu
 355 360 365
 Lys Arg Asn Ala Arg Glu Asn Ile Lys Gln Ile Val Lys Leu Leu Ala
 370 375 380
 Ser Val Arg Ala Leu Asp His Ala Met Ser Val Ala Ser Asp His Asn
 385 390 395 400
 Val Lys Glu Phe Lys Ser Leu Ile Glu Gly Lys
 405 410

<210> 3707

<211> 109

<212> PRT

<213> Homo sapiens

<400> 3707

Met Ala Gly Pro Ser Leu Ala Leu Val Val Leu Ala Val Glu Gln Trp
 1 5 10 15
 Asp Glu Pro Val Val Pro Tyr Gly Ala Leu Glu Asn Ala Arg Ile Pro
 20 25 30
 Ser Ser Thr Cys Leu Arg Ser His Leu Leu Val Ala Ala Phe Val His
 35 40 45
 Pro Arg Gly Pro Gly Ala Arg Phe Phe Leu Ala Ser Asn Gly Ala Pro
 50 55 60
 Phe Leu Leu Gly Ser Gly His Cys Leu Gln Tyr Arg Phe Arg Gly Leu
 65 70 75 80
 Pro Ala Thr Val Met Cys Glu Ala Arg Asn Leu Arg Phe Thr Arg Ala

85 90 95
 Glu Ser Cys Arg His Leu Trp Gly Leu Pro Gly Cys Pro
 100 105

<210> 3708

<211> 581

<212> PRT

<213> Homo sapiens

<400> 3708

Met Gln Gln Val Met Leu Thr Cys Lys Gly Val Asn Arg Gly His Ala
 1 5 10 15
 Val Pro Ala Gly Pro Gly Arg Lys Pro Arg Pro Arg Arg Ser Ser Arg
 20 25 30
 Leu Leu Ala Gly Glu Lys His Leu Thr Arg Ser Ala Leu Leu Leu Cys
 35 40 45
 His Thr Glu Asp Gly Arg Ala Leu Glu Gly Thr Leu Ser Glu Leu Ala
 50 55 60
 Ala Glu Thr Asp Leu Pro Val Val Phe Val Lys Gln Arg Lys Ile Gly
 65 70 75 80
 Gly His Gly Pro Thr Leu Lys Ala Tyr Gln Glu Gly Arg Leu Gln Lys
 85 90 95
 Leu Leu Lys Met Asn Gly Pro Glu Asp Leu Pro Lys Ser Tyr Asp Tyr
 100 105 110
 Asp Leu Ile Ile Ile Gly Gly Gly Ser Gly Gly Leu Ala Ala Ala Lys
 115 120 125
 Glu Ala Ala Gln Tyr Gly Lys Lys Val Met Val Leu Val Phe Val Thr
 130 135 140

Pro Thr Pro Leu Gly Thr Arg Trp Gly Leu Gly Gly Thr Cys Val Asn
 145 150 155 160
 Val Gly Cys Ile Pro Lys Lys Leu Met His Gln Ala Ala Leu Leu Gly
 165 170 175
 Gln Ala Leu Gln Asp Ser Arg Asn Tyr Gly Trp Lys Val Glu Glu Thr
 180 185 190
 Val Lys His Asp Trp Asp Arg Met Ile Glu Ala Val Gln Asn His Ile
 195 200 205
 Gly Ser Leu Asn Trp Gly Tyr Arg Val Ala Leu Arg Glu Lys Lys Val
 210 215 220
 Val Tyr Glu Asn Ala Tyr Gly Gln Phe Ile Gly Pro His Arg Ile Lys
 225 230 235 240
 Ala Thr Asn Asn Lys Gly Lys Glu Lys Ile Tyr Ser Ala Glu Arg Phe
 245 250 255
 Leu Ile Ala Thr Gly Glu Arg Pro Arg Tyr Leu Gly Ile Pro Gly Asp
 260 265 270
 Lys Glu Tyr Cys Ile Ser Ser Asp Asp Leu Phe Ser Leu Pro Tyr Cys
 275 280 285
 Pro Gly Lys Thr Leu Val Val Gly Ala Ser Tyr Val Ala Leu Glu Cys
 290 295 300
 Ala Gly Phe Leu Ala Gly Ile Gly Leu Asp Val Thr Val Met Val Arg
 305 310 315 320
 Ser Ile Leu Leu Arg Gly Phe Asp Gln Asp Met Ala Asn Lys Ile Gly
 325 330 335
 Glu His Met Glu Glu His Gly Ile Lys Phe Ile Arg Gln Phe Val Pro
 340 345 350
 Ile Lys Val Glu Gln Ile Glu Ala Gly Thr Pro Gly Arg Leu Arg Val
 355 360 365
 Val Ala Gln Ser Thr Asn Ser Glu Glu Ile Ile Glu Gly Glu Tyr Asn

370	375	380
Thr Val Met Leu Ala Ile Gly Arg Asp Ala Cys Thr Arg Lys Ile Gly		
385	390	395
Leu Glu Thr Val Gly Val Lys Ile Asn Glu Lys Thr Gly Lys Ile Pro		400
	405	410
Val Thr Asp Glu Glu Gln Thr Asn Val Pro Tyr Ile Tyr Ala Ile Gly		415
	420	425
Asp Ile Leu Glu Asp Lys Val Glu Leu Thr Pro Val Ala Ile Gln Ala		430
	435	440
Gly Arg Leu Leu Ala Gln Arg Leu Tyr Ala Gly Ser Thr Val Lys Cys		445
	450	455
Asp Tyr Glu Asn Val Pro Thr Thr Val Phe Thr Pro Leu Glu Tyr Gly		460
465	470	475
Ala Cys Gly Leu Ser Glu Glu Lys Ala Val Glu Lys Phe Gly Glu Glu		480
	485	490
Asn Ile Glu Val Tyr His Ser Tyr Phe Trp Pro Leu Glu Trp Thr Ile		495
	500	505
Pro Ser Arg Asp Asn Asn Lys Cys Tyr Ala Lys Ile Ile Cys Asn Thr		510
	515	520
Lys Asp Asn Glu Arg Val Val Gly Phe His Val Leu Gly Pro Asn Ala		525
	530	535
Gly Glu Val Thr Gln Gly Phe Ala Ala Ala Leu Lys Cys Gly Leu Thr		540
545	550	555
Lys Lys Gln Leu Asp Ser Thr Ile Gly Ile His Pro Val Cys Ala Glu		560
	565	570
Phe Phe Ser Phe Ile		575
	580	

<210> 3709

<211> 788

<212> PRT

<213> Homo sapiens

<400> 3709

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Met Gly Leu Phe Met Val Arg Pro Leu Ala Thr Glu Tyr Pro Pro Leu
  1             5             10             15
Arg Leu Thr Pro Gly His Tyr Gln Arg Ala Glu Thr Tyr Phe Phe Arg
             20             25             30
Lys Asn Ser Ser Cys Trp Arg Thr Asp Pro Phe Ser His Pro Glu Phe
             35             40             45
Gln Asp Ser Cys Gly Cys Leu Lys Cys Pro Asn Arg Ser Ala Ser Ala
             50             55             60
Pro Tyr Leu Thr Asn His Leu Gly His Thr Leu Leu Asn Leu Ser Gly
             65             70             75             80
Phe Asn Met Glu Glu Tyr Leu Leu Ala Pro Ser Glu Lys Pro Arg Leu
             85             90             95
Gly Gly Trp Ser Phe Gly Leu Lys Ile Pro Ser Glu Ala Gly Gly Ala
             100            105            110
Asn Gly Asn Ile Ser Lys Pro Pro Thr Leu Ala Lys Val Trp Tyr Asn
             115            120            125
Gln Lys Gly Phe His Ser Leu Pro Ser Tyr Leu Asn His Leu Asn Asn
             130            135            140
Leu Ile Leu Trp Gln His Leu Pro Pro Thr Val Asp Trp Arg Gln Tyr
             145            150            155            160
Gly Ile Thr Leu Tyr Ser His Pro Tyr Gly Gly Ala Leu Leu Asn Glu
             165            170            175
Asp Lys Ile Leu Glu Ser Ile Arg Gln Cys Gly Val Ala Leu Cys Ile

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180	185	190
Val Leu Gly Phe Ser Ile Leu Ser Ala Ser Ile Gly Ser Ser Val Val		
195	200	205
Arg Asp Arg Val Ile Gly Ala Lys Arg Leu Gln His Ile Ser Gly Leu		
210	215	220
Gly Tyr Arg Met Tyr Trp Phe Thr Asn Phe Leu Tyr Asp Met Leu Phe		
225	230	235
Tyr Leu Val Ser Val Cys Leu Cys Val Ala Val Ile Val Ala Phe Gln		
245	250	255
Leu Thr Ala Phe Thr Phe Arg Lys Asn Leu Ala Ala Thr Ala Leu Leu		
260	265	270
Leu Ser Leu Phe Gly Tyr Ala Thr Leu Pro Trp Met Tyr Leu Met Ser		
275	280	285
Arg Ile Phe Ser Ser Ser Asp Val Ala Phe Ile Ser Tyr Val Ser Leu		
290	295	300
Asn Phe Ile Phe Gly Leu Cys Thr Met Leu Ile Thr Ile Met Pro Arg		
305	310	315
Leu Leu Ala Ile Ile Ser Lys Ala Lys Asn Leu Gln Asn Ile Tyr Asp		
325	330	335
Val Leu Lys Trp Val Phe Thr Ile Phe Pro Gln Phe Cys Leu Gly Gln		
340	345	350
Gly Leu Val Glu Leu Cys Tyr Asn Gln Ile Lys Tyr Asp Leu Thr His		
355	360	365
Asn Phe Gly Ile Asp Ser Tyr Val Ser Pro Phe Glu Met Asn Phe Leu		
370	375	380
Gly Trp Ile Phe Val Gln Leu Ala Ser Gln Gly Thr Val Leu Leu Leu		
385	390	395
Leu Arg Val Leu Leu His Trp Asp Leu Leu Arg Trp Pro Arg Gly His		
405	410	415

Ser Thr Leu Gln Gly Thr Val Lys Ser Ser Lys Asp Thr Asp Val Glu
420 425 430
Glu Glu Glu Lys Arg Val Phe Glu Gly Arg Thr Asn Gly Asp Ile Leu
435 440 445
Val Leu Tyr Asn Leu Ser Lys His Tyr Arg Arg Phe Phe Gln Asn Ile
450 455 460
Ile Ala Val Gln Asp Ile Ser Leu Gly Ile Pro Lys Gly Glu Cys Phe
465 470 475 480
Gly Leu Leu Gly Val Asn Gly Ala Gly Lys Ser Thr Thr Phe Lys Met
485 490 495
Leu Asn Gly Glu Val Ser Leu Thr Ser Gly His Ala Ile Ile Arg Thr
500 505 510
Pro Met Gly Asp Ala Val Asp Leu Ser Ser Ala Gly Thr Ala Gly Val
515 520 525
Leu Ile Gly Tyr Cys Pro Gln Gln Asp Ala Leu Asp Glu Leu Leu Thr
530 535 540
Gly Trp Glu His Leu Tyr Tyr Tyr Cys Ser Leu Arg Gly Ile Pro Arg
545 550 555 560
Gln Cys Ile Pro Glu Val Ala Gly Asp Leu Ile Arg Arg Leu His Leu
565 570 575
Glu Ala His Ala Asp Lys Pro Val Ala Thr Tyr Ser Gly Gly Thr Lys
580 585 590
Arg Lys Leu Ser Thr Ala Leu Ala Leu Val Gly Lys Pro Asp Ile Leu
595 600 605
Leu Leu Asp Glu Pro Ser Ser Gly Met Asp Pro Cys Ser Lys Arg Tyr
610 615 620
Leu Trp Gln Thr Ile Met Lys Glu Val Arg Glu Gly Cys Ala Ala Val
625 630 635 640
Leu Thr Ser His Ser Met Glu Glu Cys Glu Ala Leu Cys Thr Arg Leu

645	650	655
Ala Ile Met Val Asn Gly Ser Phe Lys Cys Leu Gly Ser Pro Gln His		
660	665	670
Ile Lys Asn Arg Phe Gly Asp Gly Tyr Thr Val Lys Val Trp Leu Cys		
675	680	685
Lys Glu Ala Asn Gln His Cys Thr Val Ser Asp His Leu Lys Leu Tyr		
690	695	700
Phe Pro Gly Ile Gln Phe Lys Gly Gln His Leu Asn Leu Leu Glu Tyr		
705	710	715
His Val Pro Lys Arg Trp Gly Cys Leu Ala Asp Leu Phe Lys Val Ile		
725	730	735
Glu Asn Asn Lys Thr Phe Leu Asn Ile Lys His Tyr Ser Ile Asn Gln		
740	745	750
Thr Thr Leu Glu Gln Val Phe Ile Asn Phe Ala Ser Glu Gln Gln Gln		
755	760	765
Thr Leu Gln Ser Thr Leu Asp Pro Ser Thr Asp Ser His His Thr His		
770	775	780
His Leu Pro Ile		
785		

<210> 3710

<211> 901

<212> PRT

<213> Homo sapiens

<400> 3710

Met Ser Leu Glu Leu Glu Asp Ala Lys Lys Lys Val Ala Glu Phe Gln

1

5

10

15

Lys Gln Cys Glu Glu Tyr Leu Val Ile Ile Val Gln Gln Lys Arg Glu
 20 25 30
 Ala Asp Glu Gln Gln Lys Ala Leu Glu Ser Leu Asn Lys Lys Asp Ile
 35 40 45
 Gly Glu Ile Lys Ser Tyr Gly Arg Pro Pro Ala Gln Val Glu Ile Val
 50 55 60
 Met Gln Ala Val Met Ile Leu Arg Gly Asn Glu Pro Thr Trp Ala Glu
 65 70 75 80
 Ala Lys Arg Gln Leu Gly Glu Gln Asn Phe Ile Lys Ser Leu Ile Asn
 85 90 95
 Phe Asp Lys Asp Asn Ile Ser Asp Lys Val Leu Lys Lys Ile Gly Ala
 100 105 110
 Tyr Cys Ala Gln Pro Asp Phe Gln Pro Asp Ile Ile Gly Arg Val Ser
 115 120 125
 Leu Ala Ala Lys Ser Leu Cys Met Trp Val Arg Ala Met Glu Leu Tyr
 130 135 140
 Gly Arg Leu Tyr Arg Val Val Glu Pro Lys Arg Ile Arg Met Asn Ala
 145 150 155 160
 Ala Leu Ala Gln Leu Arg Glu Lys Gln Ala Ala Leu Ala Glu Ala Gln
 165 170 175
 Glu Lys Leu Arg Glu Val Ala Glu Lys Leu Glu Met Leu Lys Lys Gln
 180 185 190
 Tyr Asp Glu Lys Leu Ala Gln Lys Glu Glu Leu Arg Lys Lys Ser Glu
 195 200 205
 Glu Met Glu Leu Lys Leu Glu Arg Ala Gly Met Leu Val Ser Gly Leu
 210 215 220
 Ala Gly Glu Lys Ala Arg Trp Glu Glu Thr Val Gln Gly Leu Glu Glu
 225 230 235 240
 Asp Leu Gly Tyr Leu Val Gly Asp Cys Leu Leu Ala Ala Ala Phe Leu

245 250 255
Ser Tyr Met Gly Pro Phe Leu Thr Asn Tyr Arg Asp Glu Ile Val Asn
260 265 270
Gln Ile Trp Ile Gly Lys Ile Trp Glu Leu Gln Val Pro Cys Ser Pro
275 280 285
Ser Phe Ala Ile Asp Asn Phe Leu Cys Asn Pro Thr Lys Val Arg Asp
290 295 300
Trp Asn Ile Gln Gly Leu Pro Ser Asp Ala Phe Ser Thr Glu Asn Gly
305 310 315 320
Ile Ile Val Thr Arg Gly Asn Arg Trp Ala Leu Met Ile Asp Pro Gln
325 330 335
Ala Gln Ala Leu Lys Trp Ile Lys Asn Met Glu Gly Gly Gln Gly Leu
340 345 350
Lys Ile Ile Asp Leu Gln Met Ser Asp Tyr Leu Arg Ile Leu Glu His
355 360 365
Ala Ile His Phe Gly Tyr Pro Val Leu Leu Gln Asn Val Gln Glu Tyr
370 375 380
Leu Asp Pro Thr Leu Asn Pro Met Leu Asn Lys Ser Val Ala Arg Ile
385 390 395 400
Gly Gly Arg Leu Leu Met Arg Ile Gly Asp Lys Glu Val Glu Tyr Asn
405 410 415
Thr Asn Phe Arg Phe Tyr Ile Thr Thr Lys Leu Ser Asn Pro His Tyr
420 425 430
Ser Pro Glu Thr Ser Ala Lys Thr Thr Ile Val Asn Phe Ala Val Lys
435 440 445
Glu Gln Gly Leu Glu Ala Gln Leu Leu Gly Ile Val Val Arg Lys Glu
450 455 460
Arg Pro Glu Leu Glu Glu Gln Lys Asp Ser Leu Val Ile Asn Ile Ala
465 470 475 480

出証特 2 0 0 4 - 3 0 5 9 6 6 1

705	710	715	720
Cys Asn Glu Met Gln Arg Met Leu Ile Val Arg Ser Leu Arg Gln Asp			
	725	730	735
Arg Val Ala Phe Cys Val Thr Ser Phe Ile Ile Thr Asn Leu Gly Ser			
	740	745	750
Arg Phe Ile Glu Pro Pro Val Leu Asn Met Lys Ser Val Leu Glu Asp			
	755	760	765
Ser Thr Pro Arg Ser Pro Leu Val Phe Ile Leu Ser Pro Gly Val Asp			
	770	775	780
Pro Thr Ser Ala Leu Leu Gln Leu Ala Glu His Met Gly Met Ala Gln			
785	790	795	800
Arg Phe His Ala Leu Ser Leu Gly Gln Gly Gln Ala Pro Ile Ala Ala			
	805	810	815
Arg Leu Leu Arg Glu Gly Val Thr Gln Gly His Trp Val Phe Leu Ala			
	820	825	830
Asn Cys His Leu Ser Leu Ser Trp Met Pro Asn Leu Asp Lys Leu Val			
	835	840	845
Glu Gln Leu Gln Val Glu Asp Pro His Pro Ser Phe Arg Leu Trp Leu			
	850	855	860
Ser Ser Ile Pro His Pro Asp Phe Pro Ile Ser Ile Leu Gln Val Ser			
865	870	875	880
Ile Lys Met Thr Thr Glu Pro Pro Lys Gly Leu Lys Ala Asn Met Thr			
	885	890	895
Arg Leu Tyr Gln Gly			
	900		

<210> 3711

<211> 270

<212> PRT

<213> Homo sapiens

<400> 3711

Met Val Met His Ala Arg Ser Gly Gly Asn Leu Glu Val Met Gly Leu
1 5 10 15
Met Leu Gly Lys Val Asp Gly Glu Thr Met Ile Ile Met Asp Ser Phe
20 25 30
Ala Leu Pro Val Glu Gly Thr Glu Thr Arg Val Asn Ala Gln Ala Ala
35 40 45
Ala Tyr Glu Tyr Met Ala Ala Tyr Ile Glu Asn Ala Lys Gln Val Gly
50 55 60
Arg Leu Glu Asn Ala Ile Gly Trp Tyr His Ser His Pro Gly Tyr Gly
65 70 75 80
Cys Trp Leu Ser Gly Ile Asp Val Ser Thr Gln Met Leu Asn Gln Gln
85 90 95
Phe Gln Glu Pro Phe Val Ala Val Val Ile Asp Pro Thr Arg Thr Ile
100 105 110
Ser Ala Gly Lys Val Asn Leu Gly Ala Phe Arg Thr Tyr Pro Lys Gly
115 120 125
Tyr Lys Pro Pro Asp Glu Gly Pro Ser Glu Tyr Gln Thr Ile Pro Leu
130 135 140
Asn Lys Ile Glu Asp Phe Gly Val His Cys Lys Gln Tyr Tyr Ala Leu
145 150 155 160
Glu Val Ser Tyr Phe Lys Ser Ser Leu Asp Arg Lys Leu Leu Glu Leu
165 170 175
Leu Trp Asn Lys Tyr Trp Val Asn Thr Leu Ser Ser Ser Ser Leu Leu
180 185 190
Thr Asn Ala Asp Tyr Thr Thr Gly Gln Val Phe Asp Leu Ser Glu Lys

195	200	205
Leu Glu Gln Ser Glu Ala Gln Leu Gly Arg Gly Ser Phe Met Leu Gly		
210	215	220
Leu Glu Thr His Asp Arg Lys Ser Glu Asp Lys Leu Ala Lys Ala Thr		
225	230	235
Arg Asp Ser Cys Lys Thr Thr Ile Glu Ala Ile His Gly Leu Met Ser		
245	250	255
Gln Val Ile Lys Asp Lys Leu Phe Asn Gln Ile Asn Ile Ser		
260	265	270

<210> 3712

<211> 431

<212> PRT

<213> Homo sapiens

<400> 3712

Met Ala Ser Ser Leu Leu Glu Glu Glu Val His Tyr Gly Ser Ser Pro		
1	5	10
Leu Ala Met Leu Thr Ala Ala Cys Ser Lys Phe Gly Gly Ser Ser Pro		
20	25	30
Leu Arg Asp Ser Thr Thr Leu Gly Lys Ala Gly Thr Lys Lys Pro Tyr		
35	40	45
Ser Val Gly Ser Asp Leu Ser Ala Ser Lys Thr Met Gly Asp Ala Tyr		
50	55	60
Pro Ala Pro Phe Thr Ser Thr Asn Gly Leu Leu Ser Pro Ala Gly Ser		
65	70	75
Pro Pro Ala Pro Thr Ser Gly Tyr Ala Asn Asp Tyr Pro Pro Phe Ser		
85	90	95

His Ser Phe Pro Gly Pro Thr Gly Thr Gln Asp Pro Gly Leu Leu Val
100 105 110
Pro Lys Gly His Ser Ser Ser Asp Cys Leu Pro Ser Val Tyr Thr Ser
115 120 125
Leu Asp Met Thr His Pro Tyr Gly Ser Trp Tyr Lys Ala Gly Ile His
130 135 140
Ala Gly Ile Ser Pro Gly Pro Gly Asn Thr Pro Thr Pro Trp Trp Asp
145 150 155 160
Met His Pro Gly Gly Asn Trp Leu Gly Gly Gly Gln Gly Gln Gly Asp
165 170 175
Gly Leu Gln Gly Thr Leu Pro Thr Gly Pro Ala Gln Pro Pro Leu Asn
180 185 190
Pro Gln Leu Pro Thr Tyr Pro Ser Asp Phe Ala Pro Leu Asn Pro Ala
195 200 205
Pro Tyr Pro Ala Pro His Leu Leu Gln Pro Gly Pro Gln His Val Leu
210 215 220
Pro Gln Asp Val Tyr Lys Pro Lys Ala Val Gly Asn Ser Gly Gln Leu
225 230 235 240
Glu Gly Ser Gly Gly Ala Lys Pro Pro Arg Gly Ala Ser Thr Gly Gly
245 250 255
Ser Gly Gly Tyr Gly Gly Ser Gly Ala Gly Arg Ser Ser Cys Asp Cys
260 265 270
Pro Asn Cys Gln Glu Leu Glu Arg Leu Gly Ala Ala Ala Ala Gly Leu
275 280 285
Arg Lys Lys Pro Ile His Ser Cys His Ile Pro Gly Cys Gly Lys Val
290 295 300
Tyr Gly Lys Ala Ser His Leu Lys Ala His Leu Arg Trp His Thr Gly
305 310 315 320
Glu Arg Pro Phe Val Cys Asn Trp Leu Phe Cys Gly Lys Arg Phe Thr

325	330	335
Arg Ser Asp Glu Leu Glu Arg His Val Arg Thr His Thr Arg Glu Lys		
340	345	350
Lys Phe Thr Cys Leu Leu Cys Ser Lys Arg Phe Thr Arg Ser Asp His		
355	360	365
Leu Ser Lys His Gln Arg Thr His Gly Glu Pro Gly Pro Gly Pro Pro		
370	375	380
Pro Ser Gly Pro Lys Glu Leu Gly Glu Gly Arg Ser Thr Gly Glu Glu		
385	390	395
Glu Ala Ser Gln Thr Pro Arg Pro Ser Ala Ser Pro Ala Thr Pro Glu		
405	410	415
Lys Ala Pro Gly Gly Ser Pro Glu Gln Ser Asn Leu Leu Glu Ile		
420	425	430

<210> 3713

<211> 106

<212> PRT

<213> Homo sapiens

<400> 3713

Met Ser Met Phe Phe Leu Val Leu Ile Thr Val Pro Pro Pro Pro Pro		
1	5	10
Asp Arg Pro Gly Leu Gln Glu Lys Arg Lys Val Glu Gln Leu Gln Tyr		
20	25	30
Asn Leu Glu Leu Ala Phe His His His Leu Cys Lys Thr His Arg Gln		
35	40	45
Ser Ile Leu Ala Lys Leu Pro Pro Lys Gly Lys Leu Arg Ser Leu Cys		
50	55	60

Ser Gln His Val Glu Arg Leu Gln Ile Phe Gln His Leu His Pro Ile
 65 70 75 80
 Val Val Gln Ala Ala Phe Pro Pro Leu Tyr Lys Glu Leu Phe Ser Thr
 85 90 95
 Glu Thr Glu Ser Pro Val Gly Leu Ser Lys
 100 105

<210> 3714

<211> 128

<212> PRT

<213> Homo sapiens

<400> 3714

Met Ser Phe Gln Tyr Ser Val Gly Glu Arg Ile Tyr Gly Asn Ser Ser
 1 5 10 15
 Ser Cys Ala Pro Leu Glu Pro Ala Ser Arg Tyr Leu Lys Ala Gly Asn
 20 25 30
 Ala Ala Leu Lys Glu Ser His Arg Ser Trp Leu Met Cys Cys Gly Asp
 35 40 45
 Ser Val Ala Pro Phe His Ser Gln Ile Val Gly Arg Asn Leu Lys Trp
 50 55 60
 Pro Ala Ser Trp Thr Trp Leu Val Ile Ile Phe Pro Ala Ser Ser Val
 65 70 75 80
 Arg Lys Trp His Ala Ala Val Phe Ser Leu Asn His Thr Val Arg Gly
 85 90 95
 His Asn Trp Arg His Trp Leu Leu Tyr Gln Gly Leu Asn Trp Asn Asp
 100 105 110
 Met Leu Ser Asp Ile Asn Arg Leu Leu Glu Gly Ile Lys Val Asp Leu

115

120

125

<210> 3715

<211> 192

<212> PRT

<213> Homo sapiens

<400> 3715

Met Glu Thr Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu Pro

1

5

10

15

Glu Thr Ser Gly Glu Phe Val Leu Thr Gln Ser Pro Gly Thr Leu Thr

20

25

30

Leu Ser Pro Gly Glu Thr Ala Thr Leu Ser Cys Arg Thr Ser Gln Ser

35

40

45

Val Arg Ser Val Tyr Ile Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala

50

55

60

Pro Arg Pro Val Ile His Gly Gly Ser Ser Arg Ala Thr Asp Ile Pro

65

70

75

80

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile

85

90

95

Asn Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr

100

105

110

Gly Arg Ser Val Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg

115

120

125

Lys Cys Thr Phe Leu Ser Leu Leu Leu Ile Arg Phe Leu Asn Leu Gly

130

135

140

Leu Arg Asn Arg Glu Leu Val His Leu Lys Glu Gln Ser Ser Ala Arg

145

150

155

160

Gln Leu Ser Glu Ala Ser Gln Trp Ser Asp Phe Leu Cys Ile Gly Gln
165 170 175

Val Ser Asp Ile Asn Ser Glu Lys Thr Phe Leu Leu Gly Gly Lys Leu
180 185 190

<210> 3716

<211> 130

<212> PRT

<213> Homo sapiens

<400> 3716

Met Glu Ala Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu Pro
1 5 10 15

Val Thr Thr Gly Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser
20 25 30

Ala Tyr Pro Gly Glu Arg Val Thr Phe Ser Cys Arg Ala Ser Gln Ser
35 40 45

Val Gly Thr Thr Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
50 55 60

Arg Arg Leu Ile Ser Gly Ala Ser Ile Arg Ala Ala Asp Ile Pro Ala
65 70 75 80

Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser
85 90 95

Ser Leu Gln Ser Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln Tyr Asn
100 105 110

Met Trp Pro Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
115 120 125

Arg Glu

130

<210> 3717

<211> 176

<212> PRT

<213> Homo sapiens

<400> 3717

Met	Ser	Gly	Glu	Leu	Ser	Asn	Arg	Phe	Gln	Gly	Gly	Lys	Ala	Phe	Gly
1				5					10					15	
Leu	Leu	Lys	Ala	Arg	Gln	Glu	Arg	Arg	Leu	Ala	Glu	Ile	Asn	Arg	Tyr
			20					25						30	
Cys	Ala	Gly	Arg	Glu	Pro	Gln	Leu	Gln	Arg	Ile	Ser	Cys	Ser	Gln	His
			35				40						45		
Ser	Cys	Leu	Leu	Ala	Leu	Leu	Phe	Gln	Glu	Phe	Leu	Cys	Asp	Gln	Lys
	50					55					60				
Tyr	Ser	Asp	Glu	Glu	Asn	Leu	Pro	Glu	Lys	Leu	Thr	Ala	Phe	Lys	Glu
65					70					75				80	
Lys	Tyr	Met	Glu	Phe	Asp	Leu	Asn	Asn	Glu	Gly	Glu	Ile	Asp	Leu	Met
				85					90					95	
Ser	Leu	Lys	Arg	Met	Met	Glu	Lys	Leu	Gly	Val	Pro	Lys	Thr	His	Leu
			100					105						110	
Glu	Met	Lys	Lys	Met	Ile	Ser	Glu	Val	Thr	Gly	Gly	Val	Ser	Asp	Thr
		115					120					125			
Ile	Ser	Tyr	Arg	Asp	Phe	Val	Asn	Met	Met	Leu	Gly	Lys	Arg	Ser	Ala
	130					135					140				
Val	Leu	Lys	Leu	Val	Met	Met	Phe	Glu	Gly	Lys	Ala	Asn	Glu	Ser	Ser
145					150					155				160	

Pro Lys Pro Val Gly Pro Pro Pro Glu Arg Asp Ile Ala Ser Leu Pro
 165 170 175

<210> 3718

<211> 325

<212> PRT

<213> Homo sapiens

<400> 3718

Met Lys Ala Lys Asp Leu Ile Val Thr Pro Ala Thr Ile Leu Lys Glu
 1 5 10 15
 Lys Pro Asp Pro Asn Asn Leu Val Phe Gly Thr Val Phe Thr Asp His
 20 25 30
 Met Leu Thr Val Glu Trp Ser Ser Glu Phe Gly Trp Glu Lys Pro His
 35 40 45
 Ile Lys Pro Leu Gln Asn Leu Ser Leu His Pro Gly Ser Ser Ala Leu
 50 55 60
 His Tyr Ala Val Glu Val Phe Asp Lys Glu Glu Leu Leu Glu Cys Ile
 65 70 75 80
 Gln Gln Leu Val Lys Leu Asp Gln Glu Trp Val Pro Tyr Ser Thr Ser
 85 90 95
 Ala Ser Leu Tyr Ile Arg Pro Thr Phe Ile Gly Thr Glu Pro Ser Leu
 100 105 110
 Gly Val Lys Lys Pro Thr Lys Ala Leu Leu Phe Val Leu Leu Ser Pro
 115 120 125
 Val Gly Pro Tyr Phe Ser Ser Gly Thr Phe Asn Pro Val Ser Leu Trp
 130 135 140
 Ala Asn Pro Lys Tyr Val Arg Ala Trp Lys Gly Gly Thr Gly Asp Cys

145 150 155 160
Lys Met Gly Gly Asn Tyr Gly Ser Ser Leu Phe Ala Gln Cys Glu Ala
 165 170 175
Val Asp Asn Gly Cys Gln Gln Val Leu Trp Leu Tyr Gly Glu Asp His
 180 185 190
Gln Ile Thr Glu Val Gly Thr Met Asn Leu Phe Leu Tyr Trp Ile Asn
 195 200 205
Glu Asp Gly Glu Glu Glu Leu Ala Thr Pro Pro Leu Asp Gly Ile Ile
 210 215 220
Leu Pro Gly Val Thr Arg Arg Cys Ile Leu Asp Leu Ala His Gln Trp
225 230 235 240
Gly Glu Phe Lys Val Ser Glu Arg Tyr Leu Thr Met Asp Asp Leu Thr
 245 250 255
Thr Ala Leu Glu Gly Asn Arg Val Arg Glu Met Phe Gly Ser Gly Thr
 260 265 270
Ala Cys Val Val Cys Pro Val Ser Asp Ile Leu Tyr Lys Gly Glu Thr
 275 280 285
Ile His Ile Pro Thr Met Glu Asn Gly Pro Lys Leu Ala Ser Arg Ile
 290 295 300
Leu Ser Lys Leu Thr Asp Ile Gln Tyr Gly Arg Glu Glu Ser Asp Trp
305 310 315 320
Thr Ile Val Leu Ser
 325

<210> 3719

<211> 184

<212> PRT

<213> Homo sapiens

<400> 3719

Met Pro Gln Asn Cys Ser Ala Pro Val Pro Met Glu Gly Gly Ser Pro
 1 5 10 15
 Met Trp Ala Glu Gln Gly Cys Pro Arg Gln Asp Val Gln Pro Pro Gly
 20 25 30
 Thr Gly Glu Leu Gly Gly Pro Ala Ala Pro Trp Leu Arg Ile Thr Arg
 35 40 45
 Cys Leu Asp Leu Asp Thr Phe Gly Leu Phe Thr Ser Leu Val Gly Phe
 50 55 60
 Gln Thr Arg His Phe Trp Leu Pro Pro Cys Leu Pro Ser Leu Leu Pro
 65 70 75 80
 Thr His Thr Cys Ser Phe Cys Arg Ser Cys Leu Ser Gln Thr Phe Phe
 85 90 95
 Leu Phe Leu Ser Leu Pro Thr Ser Leu Pro Pro His Pro Leu Pro Glu
 100 105 110
 Glu Gly Lys Asn Ser Val Ser His Lys Gln Asn Ile Cys His Ser Ile
 115 120 125
 Gly Gly Arg Thr Glu Ala Gly Ala Gln Asn Ile Leu Glu Gly Thr Gln
 130 135 140
 Ala Arg Val Glu Gly Leu Ser Cys Leu Ile Trp Lys Glu Asp Phe Asp
 145 150 155 160
 Val Thr Leu Leu Arg Leu Ser Trp Glu Ala Ser Arg Cys Phe Met Ala
 165 170 175
 Ser Thr Leu Cys Val Lys Asp Gly
 180

<210> 3720

<211> 384

<212> PRT

<213> Homo sapiens

<400> 3720

Met Gly Pro Gly Pro Ser Pro Asn Trp Thr Leu Asp Pro Glu Pro Arg

1 5 10 15

Cys Arg Leu Trp Ser Glu Pro Arg Leu Pro Ala Gly Pro Gly Val Leu

20 25 30

Ala Ala Gly Ser Pro Arg Leu Pro Cys Arg Tyr Val Met Thr Ser Glu

35 40 45

Phe Thr Leu Gly Pro Thr Ala Glu Phe Phe Arg Glu His Asn Phe Phe

50 55 60

His Leu Asp Pro Ala Asn Val Val Met Phe Glu Gln Arg Leu Leu Pro

65 70 75 80

Ala Val Thr Phe Asp Gly Lys Val Ile Leu Glu Arg Lys Asp Lys Val

85 90 95

Ala Met Ala Pro Asp Gly Asn Gly Gly Leu Tyr Cys Ala Leu Glu Asp

100 105 110

His Lys Ile Leu Glu Asp Met Glu Arg Arg Gly Val Glu Phe Val His

115 120 125

Val Tyr Cys Val Asp Asn Ile Leu Val Arg Leu Ala Asp Pro Val Phe

130 135 140

Ile Gly Phe Cys Val Leu Gln Gly Ala Asp Cys Gly Ala Lys Val Val

145 150 155 160

Glu Lys Ala Tyr Pro Glu Glu Pro Val Gly Val Val Cys Gln Val Asp

165 170 175

Gly Val Pro Gln Val Val Glu Tyr Ser Glu Ile Ser Pro Glu Thr Ala

180 185 190

Gln Leu Arg Val Ser Asp Gly Ser Leu Leu Tyr Asn Ala Gly Asn Ile

195

200

205

Cys Asn His Phe Phe Thr Arg Gly Phe Leu Lys Ala Val Thr Arg Glu

210

215

220

Phe Glu Pro Leu Leu Lys Pro His Val Ala Val Lys Lys Val Pro Tyr

225

230

235

240

Val Asp Glu Glu Gly Asn Leu Val Lys Pro Leu Lys Pro Asn Gly Ile

245

250

255

Lys Met Glu Lys Phe Val Phe Asp Val Phe Arg Phe Ala Lys Asn Phe

260

265

270

Ala Ala Leu Glu Val Leu Arg Glu Glu Glu Phe Ser Pro Leu Lys Asn

275

280

285

Ala Glu Pro Ala Asp Arg Asp Ser Pro Arg Thr Ala Arg Gln Ala Leu

290

295

300

Leu Thr Gln His Tyr Arg Trp Ala Leu Arg Ala Gly Ala Arg Phe Leu

305

310

315

320

Asp Ala His Gly Ala Trp Leu Pro Glu Leu Pro Ser Leu Pro Pro Asn

325

330

335

Gly Asp Pro Pro Ala Ile Cys Glu Ile Ser Pro Leu Val Ser Tyr Ser

340

345

350

Gly Glu Gly Leu Glu Val Tyr Leu Gln Gly Arg Glu Phe Gln Ser Pro

355

360

365

Leu Ile Leu Asp Glu Asp Gln Ala Arg Glu Pro Gln Leu Gln Glu Ser

370

375

380

<210> 3721

<211> 379

<212> PRT

<213> Homo sapiens

<400> 3721

Met	Ile	Phe	Met	Asn	Thr	Leu	Arg	Tyr	Leu	Gln	Thr	His	Glu	Tyr	Leu
1				5					10					15	
Leu	Asp	Val	Asp	Leu	Trp	Arg	Leu	Phe	Ala	Asn	Leu	Glu	Glu	Leu	Thr
			20					25						30	
Gln	Thr	Ser	Leu	Gly	Phe	Val	Asn	Ser	Leu	Phe	Gly	Ile	Ile	Lys	Asp
			35				40						45		
Tyr	Val	Asp	Ala	Ser	Glu	Ile	Ser	Ser	Ser	Leu	Asp	Phe	Ile	Ser	Val
		50					55					60			
Leu	Thr	Lys	Tyr	Phe	Arg	Gly	Ser	Leu	Cys	Gln	Ser	His	Gln	Thr	Tyr
65					70					75					80
Cys	Leu	Asn	Tyr	Ser	Ala	Ala	Ile	Phe	Tyr	Leu	Glu	Ser	Leu	Arg	Gln
					85					90					95
Arg	Asp	Asp	Phe	Gly	Ile	Tyr	Leu	Lys	Trp	Cys	Glu	Gln	Asn	Glu	Gln
			100					105						110	
Cys	Arg	Arg	Leu	His	Val	Pro	Glu	Leu	Leu	Val	Ala	Pro	Leu	Gln	Arg
			115					120						125	
Leu	Thr	Arg	Tyr	Pro	Leu	Leu	Leu	Lys	Asn	Ile	Trp	Lys	Arg	Ser	Met
			130					135						140	
Asp	Ser	Ala	Glu	Lys	Ile	Met	Ile	Tyr	Ser	Ile	Lys	Glu	Lys	Val	Glu
145					150						155				160
Lys	Ser	Ile	Arg	Asp	Leu	Glu	Gly	Lys	Val	Lys	Trp	Leu	Asp	Asn	Phe
					165					170					175
Gln	Lys	Phe	Arg	Tyr	Leu	Gln	Glu	Ile	Ile	Val	Trp	Pro	Pro	Leu	Trp
			180							185				190	
Asp	Arg	Asp	Lys	Arg	Phe	Phe	Ile	Pro	Glu	Cys	Leu	Lys	His	Ile	Phe
			195							200				205	

Lys Glu His Met Ala Glu Asn Ile Leu Ser Pro Thr Ser Arg His Leu
210 215 220
Leu Tyr Glu Gly Lys Leu Thr Leu Ala Glu Ser Thr Arg Phe Leu Asp
225 230 235 240
Val Tyr Leu Phe Leu Phe Asn Asp Phe Leu Leu Val Thr Lys Thr Lys
245 250 255
Cys Asn Lys Lys Lys Leu Gly Gly Ser Asp Pro Gly Leu Met Cys Pro
260 265 270
Ser Leu Thr Pro Glu Leu Gln Ala Val Ile Lys Glu Gly Gly Ser Cys
275 280 285
Thr Val Leu Asp Gln Pro Ile Pro Leu Asp Arg Leu Val Val Lys Ser
290 295 300
Ile Glu Pro Leu His Val Ser Val Phe Gly Leu Arg Asn Ala Phe Leu
305 310 315 320
Ile Gln His Glu Asn Arg Tyr Arg Gln Cys Ile Ala Ala Phe Leu Leu
325 330 335
Gln Ala Gln Thr Glu Asn Ile Lys Lys Thr Trp Met Ala Gln Ile Thr
340 345 350
Thr Ala Ile Ser Cys Phe Thr Lys Ser Gln Glu Thr Lys Lys Ile Ser
355 360 365
Leu Phe Thr Leu Pro Ala Glu Ser Ser Glu Ile
370 375

<210> 3722

<211> 756

<212> PRT

<213> Homo sapiens

<400> 3722

Met	Gln	Cys	Lys	Val	Ile	Leu	Leu	Asp	Gly	Ser	Glu	Tyr	Thr	Cys	Asp
1				5					10					15	
Val	Glu	Lys	Arg	Ser	Arg	Gly	Gln	Val	Leu	Phe	Asp	Lys	Val	Cys	Glu
			20					25					30		
His	Leu	Asn	Leu	Leu	Glu	Lys	Asp	Tyr	Phe	Gly	Leu	Thr	Tyr	Arg	Asp
		35					40					45			
Ala	Glu	Asn	Gln	Lys	Asn	Trp	Leu	Asp	Pro	Ala	Lys	Glu	Ile	Lys	Lys
	50					55					60				
Gln	Val	Arg	Ser	Gly	Ala	Trp	His	Phe	Ser	Phe	Asn	Val	Lys	Phe	Tyr
65					70				75					80	
Pro	Pro	Asp	Pro	Ala	Gln	Leu	Ser	Glu	Asp	Ile	Thr	Arg	Tyr	Tyr	Leu
				85					90				95		
Cys	Leu	Gln	Leu	Arg	Asp	Asp	Ile	Val	Ser	Gly	Arg	Leu	Pro	Cys	Ser
		100					105					110			
Phe	Val	Thr	Leu	Ala	Leu	Leu	Gly	Ser	Tyr	Thr	Ala	Gln	Ser	Glu	Leu
	115						120					125			
Gly	Asp	Tyr	Asp	Pro	Asp	Glu	Cys	Gly	Ser	Asp	Tyr	Ile	Ser	Glu	Phe
	130					135					140				
Arg	Phe	Ala	Pro	Asn	His	Thr	Lys	Glu	Leu	Glu	Asp	Lys	Val	Ile	Glu
145				150					155					160	
Leu	His	Lys	Ser	His	Arg	Gly	Met	Thr	Pro	Ala	Glu	Ala	Glu	Met	His
			165					170					175		
Phe	Leu	Glu	Asn	Ala	Lys	Lys	Leu	Ser	Met	Tyr	Gly	Val	Asp	Leu	His
		180						185				190			
His	Ala	Lys	Asp	Ser	Glu	Gly	Val	Glu	Ile	Met	Leu	Gly	Val	Cys	Ala
	195						200					205			
Ser	Gly	Leu	Leu	Ile	Tyr	Arg	Asp	Arg	Leu	Arg	Ile	Asn	Arg	Phe	Ala
	210						215					220			

出証特 2 0 0 4 - 3 0 5 9 6 6 1

450 455 460
Trp Glu Lys Arg Leu Ser Thr Ser Pro Val Arg Leu Ala Ala Arg Gln
465 470 475 480
Glu Asp Ala Pro Met Ile Glu Pro Leu Val Pro Glu Glu Lys Met Glu
485 490 495
Thr Lys Thr Glu Ser Ser Gly Ile Glu Thr Glu Pro Thr Val His His
500 505 510
Leu Pro Leu Ser Thr Glu Lys Val Val Gln Glu Thr Val Leu Val Glu
515 520 525
Glu Arg Arg Val Val His Ala Ser Gly Asp Ala Ser Tyr Ser Ala Gly
530 535 540
Asp Ser Gly Asp Ala Ala Ala Gln Pro Ala Phe Thr Gly Ile Lys Gly
545 550 555 560
Lys Glu Gly Ser Ala Leu Thr Glu Gly Ala Lys Glu Glu Gly Gly Glu
565 570 575
Glu Val Ala Lys Ala Val Leu Glu Gln Glu Glu Thr Ala Ala Ala Ser
580 585 590
Arg Glu Arg Gln Glu Glu Gln Ser Ala Ala Ile His Ile Ser Glu Thr
595 600 605
Leu Glu Gln Lys Pro His Phe Glu Ser Ser Thr Val Lys Thr Glu Thr
610 615 620
Ile Ser Phe Gly Ser Val Ser Pro Gly Gly Val Lys Leu Glu Ile Ser
625 630 635 640
Thr Lys Glu Val Pro Val Val His Thr Glu Thr Lys Thr Ile Thr Tyr
645 650 655
Glu Ser Ser Gln Val Asp Pro Gly Thr Asp Leu Glu Pro Gly Val Leu
660 665 670
Met Ser Ala Gln Thr Ile Thr Ser Glu Thr Thr Ser Thr Thr Thr Thr
675 680 685

Thr His Ile Thr Lys Thr Val Lys Gly Gly Ile Ser Glu Thr Arg Ile
 690 695 700
 Glu Lys Arg Ile Val Ile Thr Gly Asp Ala Asp Ile Asp His Asp Gln
 705 710 715 720
 Ala Leu Ala Gln Ala Ile Lys Glu Ala Lys Glu Gln His Pro Asp Met
 725 730 735
 Ser Val Thr Lys Val Val Val His Lys Glu Thr Glu Ile Thr Pro Glu
 740 745 750
 Asp Gly Glu Asp
 755

<210> 3723

<211> 200

<212> PRT

<213> Homo sapiens

<400> 3723

Met Gly Ala His Gln Leu Pro Val Asp Gly Val Gly Gly Gly Pro Gln
 1 5 10 15
 Ser Pro Gly Gly Ser Met Pro Gln Ala Gln Thr Gly Ser Ser Gly Ala
 20 25 30
 Gln Leu Ala Gly Trp Ala Pro Ala Glu Glu Leu Ser Ala Ile Ala Ala
 35 40 45
 Ala Val Gly Gln Lys Arg Glu Arg Lys Arg Gly Arg Ile Arg Leu Gly
 50 55 60
 Val Thr Gly Cys Ala Ser Glu Pro Glu Arg Arg Glu Ser Gly Gln Arg
 65 70 75 80
 Gly Val Ser Gly Ser Arg Glu Gly Leu Gly Pro Ala Gly Trp Ser Gly

	85	90	95
Ala Gly Gly Arg Gly Trp Ala Leu Arg Glu Ala Gly Ala Val Gln Ala			
100	105	110	
Gly Pro Arg Gly Arg Ala Gly Val Lys Glu Ala Pro Asp Gly Arg Gly			
115	120	125	
Glu Phe Ser Pro Cys Thr Ile Pro Val His Ser Gly Phe Pro Val Glu			
130	135	140	
Gly Gly Ala Pro Gln Gly Pro Ser Val Phe Pro His Leu Thr His Thr			
145	150	155	160
Leu Gly Asp Pro Arg Leu Leu Pro Gly Ala Leu Thr Asp Ile Phe Ala			
165	170	175	
Glu Trp Arg Gly Pro Val Gly Phe Leu Phe Pro Ser Gln Leu Leu Leu			
180	185	190	
Asn Arg Val Asp Phe Pro Ser Glu			
195	200		

<210> 3724

<211> 209

<212> PRT

<213> Homo sapiens

<400> 3724

Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly			
1	5	10	15
Val Gln Gly Gln Val Gln Leu Leu Asp Ser Gly Gly Gly Leu Val Gln			
20	25	30	
Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe			
35	40	45	

Ser Ser Tyr Ala Leu Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
50 55 60
Glu Trp Ile Ser Val Ile Ser Asp Ser Gly Ser Ser Thr Tyr Tyr Ala
65 70 75 80
Asp Ser Val Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Lys Asn
85 90 95
Thr Leu His Leu Gln Leu Ser Ser Leu Arg Val Glu Asp Thr Val Pro
100 105 110
Ser Arg Gln Val Arg Asp Met Pro Arg Glu Ala Leu His Glu Ser Gln
115 120 125
Pro Gly Cys Asp Cys Ala Leu Pro Ser Ser Leu Asn Ser Thr Tyr Pro
130 135 140
Ile Ser Leu Asn Ser Thr Tyr Pro Ile Ser Leu Met Leu Pro Pro Pro
145 150 155 160
Thr Val Thr Ala Pro Thr Gly Pro Arg Gly Pro Ala Leu Arg Phe Arg
165 170 175
Ser Glu Pro His Val His Thr Asp Arg Pro Glu Arg Cys Leu Arg Cys
180 185 190
His Leu His Leu Asp Ala Leu Lys Trp Glu Glu Arg Cys Ser Arg Thr
195 200 205
Thr

<210> 3725

<211> 143

<212> PRT

<213> Homo sapiens

<400> 3725

Met Ala Lys Gly Leu Leu Glu Pro His Pro Ser Phe Lys Phe Trp Phe
 1 5 10 15
 Lys Lys Phe His Ala Met Pro His Met Ala Leu Pro Arg Cys Leu Phe
 20 25 30
 Asp Leu Pro Gly Leu Ser Val Leu Ser Ser Pro Leu Ser Ser Phe Ala
 35 40 45
 Met Trp Leu Gly Gly Gly Trp Arg Pro Pro Cys Trp Pro Leu Gly Ala
 50 55 60
 Ala Ala Lys Ala Arg Arg Leu Arg Thr Pro Trp His Leu Trp Ile Ser
 65 70 75 80
 Thr Thr Arg Leu Leu Phe Cys Ser Cys Leu Cys Lys Asn Glu Asn Leu
 85 90 95
 Pro Pro Tyr His Leu Cys Cys Val Gly Leu Arg Arg His Gly Leu Thr
 100 105 110
 His Pro Ala Ser Cys Lys Pro Ser Gly Thr Ser Gln Cys Ser Pro Pro
 115 120 125
 Ala Phe Tyr Tyr Ser His His Pro Gly Thr Leu Val Gln Ala Pro
 130 135 140

<210> 3726

<211> 208

<212> PRT

<213> Homo sapiens

<400> 3726

Met Trp Cys Asp Tyr Ile Val Gln Gly Lys Arg Phe Ser Gly Val Thr
 1 5 10 15

Tyr Gly Tyr Pro Pro Tyr Tyr Leu Ser Pro Ile Arg Cys Ile Val Ser
 20 25 30
 Ser Leu Ser Ala Pro Phe Ser Thr Leu Cys Ser Glu Ser His Gly Leu
 35 40 45
 His Pro Pro Phe Pro Leu Gly Cys Val Ser Pro Asn Phe Val Phe Thr
 50 55 60
 Pro Leu Cys Phe Asn Gly Ser Cys Phe Phe Ser Leu Glu Phe Ala Trp
 65 70 75 80
 Ile Leu Pro Ile Arg Glu Met Thr Ala Arg Leu Met Gly Gln Lys Tyr
 85 90 95
 Ile His His Thr Asp Ser Arg Ile Thr Lys Met Ile Leu Cys Ser Thr
 100 105 110
 Thr Cys Ser Gly Asn Gln Pro Ala Gly Asp Ser Ile Pro Trp Gln Gln
 115 120 125
 Lys Arg Lys His Gly Leu Leu Lys Gly Arg Phe Leu Val Cys Leu Leu
 130 135 140
 Leu Arg Glu Asn Leu Phe Val Leu Val Cys Val Asn Gln Cys Pro His
 145 150 155 160
 Leu Arg Asp Val Thr Thr Val Lys Met Gln Asn His Arg Asn Leu Lys
 165 170 175
 Thr Thr Lys Ser Cys Ile Phe Asp Ser Phe Leu Pro Ile Lys Gly Asn
 180 185 190
 Pro Leu Val Asp Phe Lys Asn Lys Ile Arg Val Lys Leu Val His Ser
 195 200 205

<210> 3727

<211> 114

<212> PRT

<213> Homo sapiens

<400> 3727

Met Asn Lys Ile Pro Ser Phe Cys Phe Leu Leu Lys Asp Val Ser Asp
1 5 10 15
Lys Leu Ser Leu Arg Phe Pro Gly Leu Tyr Ile Val Gly Gln Arg Asp
20 25 30
Leu Leu Phe Asn Tyr Lys Arg Phe Phe Val Ser Leu Leu His Gly Val
35 40 45
Leu Thr Ser Met Ile Leu Phe Phe Ile Pro Leu Gly Ala Tyr Leu Gln
50 55 60
Thr Val Gly Gln Asp Gly Glu Ala Pro Ser Asp Tyr Gln Ser Phe Ala
65 70 75 80
Val Thr Ile Ala Ser Ala Leu Val Ile Thr Val Asn Phe Gln Val Arg
85 90 95
Gly Phe His Trp Pro Tyr Ser Val Ser Ile Gly Thr Tyr Leu Tyr Phe
100 105 110
Cys Ile

<210> 3728

<211> 731

<212> PRT

<213> Homo sapiens

<400> 3728

Met Gly Ser Gly Glu Glu Pro Gly Gln Ser Gly Ala Ser Leu Arg Thr
1 5 10 15

Gly Pro Met Val Gln Gly Arg Gly Ile Met Thr Thr Gly Ser Gly Gln
 20 25 30
 Glu Pro Gly Gln Ser Gly Thr Ser Leu Arg Thr Gly Pro Met Gly Ser
 35 40 45
 Leu Gly Gln Ala Glu Gln Val Ser Ser Met Pro Met Gly Ser Leu Glu
 50 55 60
 His Glu Gly Leu Val Ser Leu Arg Pro Val Gly Leu Gln Glu Gln Glu
 65 70 75 80
 Gly Pro Met Ser Leu Gly Pro Val Gly Ser Ala Gly Pro Val Glu Thr
 85 90 95
 Ser Lys Gly Leu Leu Gly Gln Glu Gly Leu Val Glu Ile Ala Met Asp
 100 105 110
 Ser Pro Glu Gln Glu Gly Leu Val Gly Pro Met Glu Ile Thr Met Gly
 115 120 125
 Ser Leu Glu Lys Ala Gly Pro Val Ser Pro Gly Cys Val Lys Leu Ala
 130 135 140
 Gly Gln Glu Gly Leu Val Glu Met Val Leu Leu Met Glu Pro Gly Ala
 145 150 155 160
 Met Arg Phe Leu Gln Leu Tyr His Glu Asp Leu Leu Ala Gly Leu Gly
 165 170 175
 Asp Val Ala Leu Leu Pro Leu Glu Gly Pro Asp Met Thr Gly Phe Arg
 180 185 190
 Leu Cys Gly Ala Gln Ala Ser Cys Gln Ala Ala Glu Glu Phe Leu Arg
 195 200 205
 Ser Leu Leu Gly Gly Ile Ser Cys His Val Leu Cys Leu Glu His Pro
 210 215 220
 Gly Ser Ala Arg Phe Leu Leu Gly Pro Glu Gly Gln His Leu Leu Gln
 225 230 235 240
 Gly Leu Glu Ala Gln Phe Gln Cys Val Phe Gly Thr Glu Arg Leu Ala

245	250	255
Thr Ala Thr Leu Asp Thr Gly Leu Glu Glu Val Asp Pro Thr Glu Ala		
260	265	270
Leu Pro Val Leu Pro Gly Asn Ala His Thr Leu Trp Thr Pro Asp Ser		
275	280	285
Thr Gly Gly Asp Gln Glu Asp Val Ser Leu Glu Glu Val Arg Glu Leu		
290	295	300
Leu Ala Thr Leu Glu Gly Leu Asp Leu Asp Gly Glu Asp Trp Leu Pro		
305	310	315
Arg Glu Leu Glu Glu Glu Gly Pro Gln Glu Gln Pro Glu Glu Glu Ala		
325	330	335
Thr Pro Gly His Glu Glu Glu Glu Pro Val Ala Pro Ser Thr Val Ala		
340	345	350
Pro Arg Trp Leu Glu Glu Glu Ala Ala Leu Gln Leu Ala Leu His Arg		
355	360	365
Ser Leu Glu Pro Gln Gly Gln Val Ala Glu Gln Glu Glu Ala Ala Ala		
370	375	380
Leu Arg Gln Ala Leu Thr Leu Ser Leu Leu Glu Gln Pro Pro Leu Glu		
385	390	395
Ala Glu Glu Pro Pro Asp Gly Gly Thr Asp Gly Lys Ala Gln Leu Val		
405	410	415
Val His Ser Ala Phe Glu Gln Asp Val Glu Glu Leu Asp Arg Ala Leu		
420	425	430
Arg Ala Ala Leu Glu Val His Val Gln Glu Glu Thr Val Gly Pro Trp		
435	440	445
Arg Arg Thr Leu Pro Ala Glu Leu Arg Ala Arg Leu Glu Arg Cys His		
450	455	460
Gly Val Ser Val Ala Leu Arg Gly Asp Cys Thr Ile Leu Arg Gly Phe		
465	470	475
		480

Gly Ala His Pro Ala Arg Ala Ala Arg His Leu Val Ala Leu Leu Ala
485 490 495
Gly Pro Trp Asp Gln Ser Leu Ala Phe Pro Leu Ala Ala Ser Gly Pro
500 505 510
Thr Leu Ala Gly Gln Thr Leu Lys Gly Pro Trp Asn Asn Leu Glu Arg
515 520 525
Leu Ala Glu Asn Thr Gly Glu Phe Gln Glu Val Val Arg Ala Phe Tyr
530 535 540
Asp Thr Leu Asp Ala Ala Arg Ser Ser Ile Arg Val Val Arg Val Glu
545 550 555 560
Arg Val Ser His Pro Leu Leu Gln Gln Gln Tyr Glu Leu Tyr Arg Glu
565 570 575
Arg Leu Leu Gln Arg Cys Glu Arg Arg Pro Val Glu Gln Val Leu Tyr
580 585 590
His Gly Thr Thr Ala Pro Ala Val Pro Asp Ile Cys Ala His Gly Phe
595 600 605
Asn Arg Ser Phe Cys Gly Arg Asn Ala Thr Val Tyr Gly Lys Gly Val
610 615 620
Tyr Phe Ala Arg Arg Ala Ser Leu Ser Val Gln Asp Arg Tyr Ser Pro
625 630 635 640
Pro Asn Ala Asp Gly His Lys Ala Val Phe Val Ala Arg Val Leu Thr
645 650 655
Gly Asp Tyr Gly Gln Gly Arg Arg Gly Leu Arg Ala Pro Pro Leu Arg
660 665 670
Gly Pro Gly His Val Leu Leu Arg Tyr Asp Ser Ala Val Asp Cys Ile
675 680 685
Cys Gln Pro Ser Ile Phe Val Ile Phe His Asp Thr Gln Ala Leu Pro
690 695 700
Thr His Leu Ile Thr Cys Glu His Val Pro Arg Ala Ser Pro Asp Asp

705 710 715 720
Pro Ser Gly Leu Pro Gly Arg Ser Pro Asp Thr
 725 730

<210> 3729

<211> 347

<212> PRT

<213> Homo sapiens

<400> 3729

Met Glu His Ala Ala Thr Thr Gly Pro Arg Pro Gly Pro Pro Ser Arg
1 5 10 15
Arg Val Glu Asn Val Ser Pro Leu Gly Leu Ala Ala Pro Ala Met Gly
 20 25 30
Leu Lys Ser Ala Arg Ser Pro Lys Gly Gln Glu Gly Ala Gly Ser Cys
 35 40 45
Thr Leu Gly Leu Ile Ser Ala Arg Arg Gly Thr Phe Thr Ala Gln Pro
 50 55 60
Gly Arg Glu Ala Gly Leu Val Thr Ala Trp Glu Trp Gly His Ser Pro
65 70 75 80
Ala Trp Asp Pro Pro Gly Glu Trp Val Ala Val Pro Pro Gln Val Val
 85 90 95
Leu Arg Ala Lys Asp Trp Leu Pro Gly Ala Pro Gly Gly Thr Ala Val
 100 105 110
Trp Ala Thr Ser Leu Glu Ala Glu Val Pro Pro Asp Leu Ala Leu Asn
 115 120 125
Lys Glu Gln Gln Leu Gln Ile Ser Lys Glu Leu Val Asp Ile Gln Ile
130 135 140

Thr Thr His His Leu His Glu Gln His Glu Ala Glu Ile Phe Gln Leu
 145 150 155 160
 Lys Ser Glu Ile Leu Arg Leu Glu Ser Arg Val Leu Glu Leu Glu Leu
 165 170 175
 Arg Gly Asp Gly Thr Ser Gln Gly Cys Ala Val Pro Val Glu Ser Asp
 180 185 190
 Pro Arg His Pro Arg Ala Ala Ala Gln Glu Leu Arg His Lys Ala Gln
 195 200 205
 Val Pro Gly His Ser Asp Asp His Arg Phe Gln Val Gln Pro Lys Asn
 210 215 220
 Thr Met Asp Pro Glu Asn Glu Gln His Arg Leu Gly Ser Gly Val Ser
 225 230 235 240
 Val Gln Pro Pro Ser Ser Gly Glu Arg Ala Ala Pro Glu Thr Pro Ser
 245 250 255
 Leu Gly Ser His Pro Ala Ser Pro Val Cys Pro Thr Ala Ala Gly Gly
 260 265 270
 Ser Glu Val Gly Ala Gly Ala Ser Gly Gly Pro Ala Ala Gly Thr Gly
 275 280 285
 Asp Ala Cys Val Ser Gly His Leu Thr Trp Gly Pro Ile Leu Glu Gln
 290 295 300
 Arg Glu Pro Leu Ile Val Gly Leu Leu Ser Leu Thr Pro Val Ser Ser
 305 310 315 320
 Gly Gln Pro Trp Ala Gly Ser Cys Arg Glu Pro Glu Arg Arg Pro Gly
 325 330 335
 Gln Pro Gly Ser Asp Trp Pro His Arg Leu Trp
 340 345

<210> 3730

<211> 125

<212> PRT

<213> Homo sapiens

<400> 3730

Met Arg Gly Lys Arg Cys Met Trp Trp Ser Ser Leu Glu Glu Thr Arg

1 5 10 15

His Lys Leu Pro Glu Val Leu Ser Cys Gly Val Pro Arg Ile Cys Leu

20 25 30

Ile Pro Pro Ala Ser His Phe Asp Asn Pro Cys Ala Val Met Ser Thr

35 40 45

Ser Thr Arg Ile Ser Leu Glu Thr Gln Tyr Pro Ser Val Leu Tyr Gly

50 55 60

Gly Tyr Ser Pro Ser His Val Pro Thr Phe Arg Pro Ser Glu Gly Lys

65 70 75 80

Gln Leu Leu Arg Ser Asn Arg Ile Val Ser Ile Asn Thr Leu Asp Thr

85 90 95

Val Thr Ser Leu Arg Ala Trp Trp Glu Pro Ser Gln Phe Gln Phe Pro

100 105 110

Lys Gln Gln Pro Arg Ala Arg Leu Ala Cys Gly Ser Phe

115 120 125

<210> 3731

<211> 125

<212> PRT

<213> Homo sapiens

<400> 3731

Met Tyr Tyr Phe Asp Gln Ile Gln Ile Ser Ile Leu Tyr His Phe Pro
 1 5 10 15
 Phe Ala Leu Lys Thr Ser Phe Asn Ile Phe Tyr His Ala Ser Leu Val
 20 25 30
 Lys Thr Ser Phe Gly Leu Leu Ser Leu Lys Thr Val Phe Ile Asn Ser
 35 40 45
 Ser Leu Phe Lys Ser Ile Phe Val Val Tyr Arg Arg Val Ser Trp Ser
 50 55 60
 Phe Leu Lys Ile Phe Tyr Tyr Thr Leu Thr Ser Arg Val His Val His
 65 70 75 80
 Asn Val Gln Asp Cys Tyr Ile Cys Ile His Val Pro Cys Trp Cys Ala
 85 90 95
 Ala Pro Ile Asn Ser Ser Phe Val Leu Gly Ile Ser Pro Asn Ala Ile
 100 105 110
 Pro Ser Pro Ser Pro His Pro Thr Thr Gly Pro Ser Val
 115 120 125

<210> 3732

<211> 126

<212> PRT

<213> Homo sapiens

<400> 3732

Met Phe Cys Ser Leu Val Lys Gln His Thr Leu Ala Leu Pro Thr Leu
 1 5 10 15
 Pro Phe Gln Phe Ser Trp Leu Phe Leu Arg Val Phe Phe Gln Ile Asn
 20 25 30
 Phe Asn Lys Arg Val Ser Arg Ser Lys Met Asn Ala Gly Arg Phe Phe

35	40	45
Phe Phe Phe Arg Val Gly Val Ser Leu Cys Arg Leu Gly Trp Ser Ala		
50	55	60
Val Ala Trp Ile Ser Ala His Cys Lys Leu Arg Leu Pro Gly Ser Cys		
65	70	75
His Ser Pro Asp Ser Ala Ser Gly Val Ala Gly Thr Thr Gly Ala Arg		
85	90	95
His Gln Ala Arg Leu Ile Phe Phe Phe Val Phe Leu Val Glu Thr Gly		
100	105	110
Phe His Arg Val Ser Gln Asn Gly Phe Tyr Leu Leu Ala Ser		
115	120	125

<210> 3733

<211> 1433

<212> PRT

<213> Homo sapiens

<400> 3733

Met Tyr Trp Ala Val Asp Arg Cys Tyr Thr Gly Ser Gly Arg Val Ala		
1	5	10
Ala Gly Cys Phe Lys Ala Ile Ala Asn Val Phe Gln Asn Arg Asp Tyr		
20	25	30
Gln Cys Asp Thr Val Met Leu Leu Asn Leu Ile Leu Phe Lys Ala Ala		
35	40	45
Asp Ser Ser Arg Ser Ile Tyr Glu Val Ala Met Gln Leu Leu Gln Ile		
50	55	60
Leu Glu Pro Lys Met Phe Arg Tyr Ala His Lys Leu Glu Val Gln Arg		
65	70	75
		80

Thr Asp Gly Val Leu Ser Gln Leu Ser Pro Leu Pro His Leu Tyr Ser
85 90 95
Val Ser Tyr Tyr Gln Leu Ser Glu Glu Leu Ala Arg Ala Tyr Pro Glu
100 105 110
Leu Thr Leu Ala Ile Phe Ser Glu Ile Ser Gln Arg Ile Gln Thr Ala
115 120 125
His Pro Ala Gly Arg Gln Val Met Leu His Tyr Leu Leu Pro Trp Met
130 135 140
Asn Asn Ile Glu Leu Val Asp Leu Lys Pro Leu Pro Thr Ala Arg Arg
145 150 155 160
His Asp Glu Asp Glu Asp Asp Ser Leu Lys Asp Arg Glu Leu Met Val
165 170 175
Thr Ser Arg Arg Trp Leu Arg Gly Glu Gly Trp Gly Ser Pro Gln Ala
180 185 190
Thr Ala Met Val Leu Asn Asn Leu Met Tyr Met Thr Ala Lys Tyr Gly
195 200 205
Asp Glu Leu Ala Trp Ser Glu Val Glu Asn Val Trp Thr Thr Leu Ala
210 215 220
Asp Gly Trp Pro Lys Asn Leu Lys Ile Ile Leu His Phe Leu Ile Ser
225 230 235 240
Ile Cys Gly Val Asn Ser Glu Pro Ser Leu Leu Pro Tyr Val Lys Lys
245 250 255
Val Ile Val Tyr Leu Gly Arg Asp Lys Thr Met Gln Leu Leu Glu Glu
260 265 270
Leu Val Ser Glu Leu Gln Leu Thr Asp Pro Val Ser Ser Gly Val Thr
275 280 285
His Met Asp Asn Pro Pro Tyr Tyr Arg Ile Thr Ser Ser Tyr Lys Ile
290 295 300
Pro Ser Val Thr Ser Gly Thr Thr Ser Ser Ser Asn Thr Met Val Ala

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Ser Thr Ser Ser Ser Ile Ser Leu Gly Asn Asn Ser Ala Ala Ile Ser
 545 550 555 560
 His Leu His Thr Thr Ile Leu Asn Glu Val Asp Ile Ser Val Glu Gln
 565 570 575
 Asp Gly Lys Val Lys Thr Leu Met Glu Phe Ile Thr Ser Arg Lys Arg
 580 585 590
 Gly Pro Leu Trp Asn His Glu Asp Val Ser Ala Lys Asn Pro Ser Ile
 595 600 605
 Lys Ser Ala Glu Gln Leu Thr Thr Phe Leu Lys His Val Val Ser Val
 610 615 620
 Phe Lys Gln Ser Ser Ser Glu Gly Ile His Leu Glu His His Leu Ser
 625 630 635 640
 Glu Val Ala Leu Gln Thr Ala Leu Ser Cys Ser Ser Arg His Tyr Ala
 645 650 655
 Gly Arg Ser Phe Gln Ile Phe Arg Ala Leu Lys Gln Pro Leu Thr Ala
 660 665 670
 Thr Thr Leu Ser Asp Val Leu Ser Arg Leu Val Glu Thr Val Gly Asp
 675 680 685
 Pro Gly Glu Asp Ala Gln Gly Phe Val Ile Glu Leu Leu Leu Thr Leu
 690 695 700
 Glu Ser Ala Ile Asp Thr Leu Ala Glu Thr Met Lys His Tyr Asp Leu
 705 710 715 720
 Leu Ser Ala Leu Ser Gln Thr Ser Tyr His Asp Pro Ile Met Gly Asn
 725 730 735
 Arg Tyr Ala Ala Asn Arg Lys Ser Thr Gly Gln Leu Asn Leu Ser Thr
 740 745 750
 Ser Pro Ile Asn Ser Ser Ser Tyr Leu Gly Tyr Asn Ser Asn Ala Arg
 755 760 765
 Ser Asn Ser Leu Arg Leu Ser Leu Ile Gly Asp Arg Arg Gly Asp Arg

770 775 780
Arg Arg Ser Asn Thr Leu Asp Ile Met Asp Gly Arg Ile Asn His Ser
785 790 795 800
Ser Ser Leu Ala Arg Thr Arg Ser Leu Ser Ser Leu Arg Glu Lys Gly
805 810 815
Met Tyr Asp Val Gln Ser Thr Thr Glu Pro Thr Asn Leu Met Ala Thr
820 825 830
Ile Phe Trp Ile Ala Ala Ser Leu Leu Glu Ser Asp Tyr Glu Tyr Glu
835 840 845
Tyr Leu Leu Ala Leu Arg Leu Leu Asn Lys Leu Leu Ile His Leu Pro
850 855 860
Leu Asp Lys Ser Glu Ser Arg Glu Lys Ile Glu Asn Val Gln Ser Lys
865 870 875 880
Leu Lys Trp Thr Asn Phe Pro Gly Leu Gln Gln Leu Phe Leu Lys Gly
885 890 895
Phe Thr Ser Ala Ser Thr Gln Glu Met Thr Val His Leu Leu Ser Lys
900 905 910
Leu Ile Ser Val Ser Lys His Thr Leu Val Asp Pro Ser Gln Leu Ser
915 920 925
Gly Phe Pro Leu Asn Ile Leu Cys Leu Leu Pro His Leu Ile Gln His
930 935 940
Phe Asp Ser Pro Thr Gln Phe Cys Lys Glu Thr Ala Ser Arg Ile Ala
945 950 955 960
Lys Val Cys Ala Glu Glu Lys Cys Pro Thr Leu Val Asn Leu Ala His
965 970 975
Met Met Ser Leu Tyr Ser Thr His Thr Tyr Ser Arg Asp Cys Ser Asn
980 985 990
Trp Ile Asn Val Val Cys Arg Tyr Leu His Asp Ser Phe Ser Asp Thr
995 1000 1005

Thr Phe Asn Leu Val Thr Tyr Leu Ala Glu Leu Leu Glu Lys Gly Leu
1010 1015 1020
Ser Ser Met Gln Gln Ser Leu Leu Gln Ile Ile Tyr Ser Leu Leu Ser
1025 1030 1035 1040
His Ile Asp Leu Ser Ala Ala Pro Ala Lys Gln Phe Asn Leu Glu Ile
1045 1050 1055
Ile Lys Ile Ile Gly Lys Tyr Val Gln Ser Pro Tyr Trp Lys Glu Ala
1060 1065 1070
Leu Asn Ile Leu Lys Leu Val Val Ser Arg Ser Ala Ser Leu Val Val
1075 1080 1085
Pro Ser Asp Ile Pro Lys Thr Tyr Gly Gly Asp Thr Gly Ser Pro Glu
1090 1095 1100
Ile Ser Phe Thr Lys Ile Phe Asn Asn Val Ser Lys Glu Leu Pro Gly
1105 1110 1115 1120
Lys Thr Leu Asp Phe His Phe Asp Ile Ser Glu Thr Pro Ile Ile Gly
1125 1130 1135
Asn Lys Tyr Gly Asp Gln His Ser Ala Ala Gly Arg Asn Gly Lys Pro
1140 1145 1150
Lys Val Ile Ala Val Thr Arg Ser Thr Ser Ser Thr Ser Ser Gly Ser
1155 1160 1165
Asn Ser Asn Ala Leu Val Pro Val Ser Trp Lys Arg Pro Gln Leu Ser
1170 1175 1180
Gln Arg Arg Thr Arg Glu Lys Leu Met Asn Val Leu Ser Leu Cys Gly
1185 1190 1195 1200
Pro Glu Ser Gly Leu Pro Lys Asn Pro Ser Val Val Phe Ser Ser Asn
1205 1210 1215
Glu Asp Leu Glu Val Gly Asp Gln Gln Thr Ser Leu Ile Ser Thr Thr
1220 1225 1230
Glu Asp Ile Asn Gln Glu Glu Glu Val Ala Val Glu Asp Asn Ser Ser

1235	1240	1245	
Glu Gln Gln Phe Gly Val Phe Lys Asp Phe Asp Phe Leu Asp Val Glu			
1250	1255	1260	
Leu Glu Asp Ala Glu Gly Glu Ser Met Asp Asn Phe Asn Trp Gly Val			
1265	1270	1275	1280
Arg Arg Arg Ser Leu Asp Ser Ile Asp Lys Gly Asp Thr Pro Ser Leu			
1285	1290	1295	
Gln Glu Tyr Gln Cys Ser Ser Ser Thr Pro Ser Leu Asn Leu Thr Asn			
1300	1305	1310	
Gln Glu Asp Thr Asp Glu Ser Ser Glu Glu Glu Ala Ala Leu Thr Ala			
1315	1320	1325	
Ser Gln Ile Leu Ser Arg Thr Gln Met Leu Asn Ser Asp Ser Ala Thr			
1330	1335	1340	
Asp Glu Thr Ile Pro Asp His Pro Asp Leu Leu Leu Gln Ser Glu Asp			
1345	1350	1355	1360
Ser Thr Gly Ser Ile Thr Thr Glu Glu Val Leu Gln Ile Arg Asp Glu			
1365	1370	1375	
Thr Pro Thr Leu Glu Ala Ser Leu Asp Asn Ala Asn Ser Arg Leu Pro			
1380	1385	1390	
Glu Asp Thr Thr Ser Val Leu Lys Glu Glu His Val Thr Thr Phe Glu			
1395	1400	1405	
Asp Glu Gly Ser Tyr Ile Ile Leu Pro Glu Gly Gln Thr Ser Lys Thr			
1410	1415	1420	
Ser Pro Gly Ala Thr Thr Leu Val Ile			
1425	1430		

<210> 3734

<211> 170

<212> PRT

<213> Homo sapiens

<400> 3734

Met Met Val Ala Leu Val Arg Ile Cys Cys Arg Phe Ser Leu Phe Leu

1 5 10 15

His Leu Ser Arg Leu Leu Pro Ser Ser Trp Gly Arg Ala Glu Lys Ile

20 25 30

Gly Glu Ala Arg Glu Leu Arg Lys Ala Arg Glu Pro Leu Leu Leu Ser

35 40 45

Thr Ser Ser Gly Leu Phe Leu Gly Thr Leu Gly Gln Ser Gly Ser Leu

50 55 60

His Trp Gly Pro Leu Leu Pro Pro Pro Pro Glu Ala Ser Thr Pro Phe

65 70 75 80

Leu Pro Pro Pro Arg Gln Ala Ser Thr Pro Ser Ala Leu Leu Ser Leu

85 90 95

Thr Trp Lys Arg Ser Pro Gly Arg Val Ala Ser Gly Lys Thr Val Ala

100 105 110

Ser Gln Ala Ser Gly Leu Arg Gln Val Gly Val Gln Ile Arg Gly Leu

115 120 125

Ala Ser Leu Gln Gly Leu Pro His Arg His Pro Asn Pro Phe Leu Asp

130 135 140

Met Arg Gly Asp Leu Leu Leu Ser Pro Pro Ser Arg Thr Pro Ala Pro

145 150 155 160

Leu Phe Arg Asn Pro Ser Leu Ala Phe Ser

165 170

<210> 3735

<211> 242

<212> PRT

<213> Homo sapiens

<400> 3735

Met Trp Leu Gln Pro Leu Leu Ala Ala Ile Arg Glu Asp Arg His Thr

1 5 10 15

Val Val Cys Pro Val Ile Asp Ile Ile Ser Ala Asp Thr Leu Ala Tyr

20 25 30

Ser Ser Ser Pro Val Val Arg Gly Gly Phe Asn Trp Gly Leu His Phe

35 40 45

Lys Trp Asp Leu Val Pro Leu Ser Glu Leu Gly Arg Ala Glu Gly Ala

50 55 60

Thr Ala Pro Ile Lys Ser Pro Thr Met Ala Gly Gly Leu Phe Ala Met

65 70 75 80

Asn Arg Gln Tyr Phe His Glu Leu Gly Gln Tyr Asp Ser Gly Met Asp

85 90 95

Ile Trp Gly Gly Glu Asn Leu Glu Ile Ser Phe Arg Ile Trp Met Cys

100 105 110

Gly Gly Lys Leu Phe Ile Ile Pro Cys Ser Arg Val Gly His Ile Phe

115 120 125

Arg Lys Arg Arg Pro Tyr Gly Ser Pro Glu Gly Gln Asp Thr Met Thr

130 135 140

His Asn Ser Leu Arg Leu Ala His Val Trp Leu Asp Glu Tyr Lys Glu

145 150 155 160

Gln Tyr Phe Ser Leu Arg Pro Asp Leu Lys Thr Lys Ser Tyr Gly Asn

165 170 175

Ile Ser Glu Arg Val Glu Leu Arg Lys Lys Leu Gly Cys Lys Ser Phe

180 185 190

Lys Trp Tyr Leu Asp Asn Val Tyr Pro Glu Met Gln Ile Ser Gly Ser
 195 200 205
 His Ala Lys Pro Gln Gln Pro Ile Phe Val Asn Arg Gly Pro Lys Arg
 210 215 220
 Pro Lys Val Leu Gln Arg Gly Arg Val Arg Lys Leu Phe Phe Pro Ser
 225 230 235 240
 Gly Leu

<210> 3736

<211> 487

<212> PRT

<213> Homo sapiens

<400> 3736

Met Leu Ser Arg Arg Tyr Glu Gly Glu Ile Pro Lys Asn Ile Cys Lys
 1 5 10 15
 Arg Lys Lys Thr Val His Gln Val Thr Glu Asn Ala Ser Asp Ala Asp
 20 25 30
 Leu Trp Leu Leu Asn Ser Cys Thr Val Lys Asn Pro Ala Glu Asp His
 35 40 45
 Phe Arg Asn Ser Ile Lys Lys Ala Gln Glu Glu Asn Lys Lys Ile Val
 50 55 60
 Leu Ala Gly Cys Val Pro Gln Ala Gln Pro Arg Gln Asp Tyr Leu Lys
 65 70 75 80
 Gly Leu Ser Ile Ile Gly Val Gln Gln Ile Asp Arg Val Val Glu Val
 85 90 95
 Val Glu Glu Thr Ile Lys Gly His Ser Val Arg Leu Leu Gly Gln Lys

100 105 110
Lys Asp Asn Gly Arg Arg Leu Gly Gly Ala Arg Leu Asp Leu Pro Lys
115 120 125
Ile Arg Lys Asn Pro Leu Ile Glu Ile Ile Ser Ile Asn Thr Gly Cys
130 135 140
Leu Asn Ala Cys Thr Tyr Cys Lys Thr Lys His Ala Arg Gly Asn Leu
145 150 155 160
Ala Ser Tyr Pro Ile Asp Glu Leu Val Asp Arg Ala Lys Gln Ser Phe
165 170 175
Gln Glu Gly Val Cys Glu Ile Trp Leu Thr Ser Glu Asp Thr Gly Ala
180 185 190
Tyr Gly Arg Asp Ile Gly Thr Asn Leu Pro Thr Leu Leu Trp Lys Leu
195 200 205
Val Glu Val Ile Pro Glu Gly Ala Met Leu Arg Leu Gly Met Thr Asn
210 215 220
Pro Pro Tyr Ile Leu Glu His Leu Glu Glu Met Ala Lys Ile Leu Asn
225 230 235 240
His Pro Arg Val Tyr Ala Phe Leu His Ile Pro Val Gln Ser Ala Ser
245 250 255
Asp Ser Val Leu Met Glu Met Lys Arg Glu Tyr Cys Val Ala Asp Phe
260 265 270
Lys Arg Val Val Asp Phe Leu Lys Glu Lys Val Pro Gly Ile Thr Ile
275 280 285
Ala Thr Asp Ile Ile Cys Gly Phe Pro Gly Glu Thr Asp Gln Asp Phe
290 295 300
Gln Glu Thr Val Lys Leu Val Glu Glu Tyr Lys Phe Pro Ser Leu Phe
305 310 315 320
Ile Asn Gln Phe Tyr Pro Arg Pro Gly Thr Pro Ala Ala Lys Met Glu
325 330 335

Gln Val Pro Ala Gln Val Ile Gly Glu Arg Gln Gln Val Leu Val Thr
340 345 350
Glu Glu Ser Phe Asp Ser Lys Phe Tyr Val Ala His Asn Gln Phe Tyr
355 360 365
Glu Gln Val Leu Val Pro Lys Asn Pro Ala Phe Met Gly Lys Met Val
370 375 380
Glu Val Asp Ile Tyr Glu Ser Gly Lys His Phe Met Lys Gly Gln Pro
385 390 395 400
Val Ser Asp Ala Lys Val Tyr Thr Pro Ser Ile Ser Lys Pro Leu Ala
405 410 415
Lys Gly Glu Val Ser Gly Leu Thr Lys Asp Phe Arg Asn Gly Leu Gly
420 425 430
Asn Gln Leu Ser Ser Gly Ser His Thr Ser Ala Ala Ser Gln Cys Asp
435 440 445
Ser Ala Ser Ser Arg Met Val Leu Pro Met Pro Arg Leu His Gln Asp
450 455 460
Cys Ala Leu Arg Met Ser Val Gly Leu Ala Leu Leu Gly Leu Leu Phe
465 470 475 480
Ala Phe Phe Cys Gln Gly Leu
485

<210> 3737

<211> 408

<212> PRT

<213> Homo sapiens

<400> 3737

Met Val Gln Asn Gly Tyr Tyr Glu Glu Thr Asp Tyr Ser Ala Leu Asp

1 5 10 15
Gly Thr Ile Asn Ala His Tyr Thr Ser Arg Asp Glu Leu Met Glu Glu
20 25 30
Arg Leu Thr Lys Ser Glu Lys Ile Asn Ser Asp Tyr Leu Arg Asp Gly
35 40 45
Ile Asn Met Pro Thr Val Cys Thr Ser Gly Cys Leu Ser Phe Pro Ser
50 55 60
Ala Pro Arg Glu Ser Pro Cys Asn Val Lys Tyr Ser Ser Lys Ser Lys
65 70 75 80
Phe Asp Ala Ile Thr Lys Gln Pro Ser Ser Thr Ser Tyr Asn Phe Thr
85 90 95
Ser Ser Ile Ser Trp Tyr Glu Ser Ser Pro Lys Pro Gln Ile Gln Ala
100 105 110
Phe Leu Gln Ala Lys Glu Glu Leu Lys Leu Leu Lys Leu Pro Gly Phe
115 120 125
Met Tyr Ser Glu Val Pro Leu Leu Ala Ser Ser Val Pro Tyr Phe Ser
130 135 140
Val Glu Glu Glu Asp Gly Ser Glu Asp Gly Val His Leu Ile Val Cys
145 150 155 160
Val His Gly Leu Asp Gly Asn Ser Ala Asp Leu Arg Leu Val Lys Thr
165 170 175
Tyr Ile Glu Leu Gly Leu Pro Gly Gly Arg Ile Asp Phe Leu Met Ser
180 185 190
Glu Arg Asn Gln Asn Asp Thr Phe Ala Asp Phe Asp Ser Met Thr Asp
195 200 205
Arg Leu Leu Asp Glu Ile Ile Gln Tyr Ile Gln Ile Tyr Ser Leu Thr
210 215 220
Val Ser Lys Ile Ser Phe Ile Gly His Ser Leu Gly Asn Leu Ile Ile
225 230 235 240

Arg Ser Val Leu Thr Arg Pro Arg Phe Lys Tyr Tyr Leu Asn Lys Leu
245 250 255
His Thr Phe Leu Ser Leu Ser Gly Pro His Leu Gly Thr Leu Tyr Asn
260 265 270
Ser Ser Ala Leu Val Asn Thr Gly Leu Trp Phe Met Gln Lys Trp Lys
275 280 285
Lys Ser Gly Ser Leu Leu Gln Leu Thr Cys Arg Asp His Ser Asp Pro
290 295 300
Arg Gln Thr Phe Leu Tyr Lys Leu Ser Asn Lys Ala Gly Leu His Tyr
305 310 315 320
Phe Lys Asn Val Val Leu Val Gly Ser Leu Gln Asp Arg Tyr Val Pro
325 330 335
Tyr His Ser Ala Arg Ile Glu Met Cys Lys Thr Ala Leu Lys Asp Lys
340 345 350
Gln Ser Gly Gln Ile Tyr Ser Glu Met Ile His Asn Leu Leu Arg Pro
355 360 365
Val Leu Gln Ser Lys Asp Cys Asn Leu Val Arg Tyr Asn Val Ile Asn
370 375 380
Ala Leu Pro Asn Thr Ala Asp Ser Leu Ile Gly Arg Ala Ala His Ile
385 390 395 400
Ala Val Leu Ile Arg Lys Tyr Phe
405

<210> 3738

<211> 131

<212> PRT

<213> Homo sapiens

<400> 3738

Met His Tyr Cys Lys Ser Leu Ile Thr Ser Thr Met Phe Thr Ala Ser
 1 5 10 15
 Ser Leu Val Asp Phe Leu Leu Lys Asn His Ile Ala His Ser Gln Glu
 20 25 30
 Pro Met Pro Gln Gln Phe Thr Phe Ser His Glu Thr Ala Val Ile Gln
 35 40 45
 Ser His Pro Gln Ala Pro Cys Leu Ile Leu Val His Leu Leu Val Pro
 50 55 60
 Pro His Leu Gln Leu Leu Pro Leu Leu Lys Ser Trp Asn Glu Leu Leu
 65 70 75 80
 Pro Asn Ser Cys Ser Cys Cys Ile Leu Thr Ser Phe His Glu Ser Pro
 85 90 95
 Met Phe Leu Met Ala Ser Arg Met Val Asn Pro Phe Leu Arg Val Phe
 100 105 110
 Asn Val Leu Cys Pro Asp Pro Ser Glu Glu Pro Leu Pro Val Thr Ala
 115 120 125
 Lys Ala Leu
 130

<210> 3739

<211> 627

<212> PRT

<213> Homo sapiens

<400> 3739

Met Lys Lys Arg Arg Lys Val Thr Ser Asn Leu Glu Lys Ile His Leu
 1 5 10 15

Gly Tyr His Lys Asp Ser Ser Glu Gly Asn Val Ala Val Glu Cys Asp
 20 25 30
 Gln Val Thr Tyr Thr His Ser Ala Gly Arg Pro Thr Pro Glu Ala Leu
 35 40 45
 His Cys Tyr Gln Glu Leu Pro Pro Ser Pro Asp Gln Arg Lys Leu Leu
 50 55 60
 Ser Ser Leu Gln Tyr Asn Lys Asn Leu Leu Lys Tyr Leu Asn Asp Asp
 65 70 75 80
 Arg Gln Lys Gln Pro Ser Phe Cys Asp Leu Leu Ile Ile Val Glu Gly
 85 90 95
 Lys Glu Phe Ser Ala His Lys Val Val Val Ala Val Gly Ser Ser Tyr
 100 105 110
 Phe His Ala Cys Leu Ser Lys Asn Pro Ser Thr Asp Val Val Thr Leu
 115 120 125
 Asp His Val Thr His Ser Val Phe Gln His Leu Leu Glu Phe Leu Tyr
 130 135 140
 Thr Ser Glu Phe Phe Val Tyr Lys Tyr Glu Ile Pro Leu Val Leu Glu
 145 150 155 160
 Ala Ala Lys Phe Leu Asp Ile Ile Asp Ala Val Lys Leu Leu Asn Asn
 165 170 175
 Glu Asn Val Ala Pro Leu His Ser Glu Leu Thr Glu Lys Ser Ser Pro
 180 185 190
 Glu Glu Thr Leu Asn Glu Leu Thr Gly Arg Leu Ser Asn Asn His Gln
 195 200 205
 Cys Lys Phe Cys Ser Arg His Phe Cys Tyr Lys Lys Ser Leu Glu Asn
 210 215 220
 His Leu Ala Lys Thr His Arg Ser Leu Leu Leu Gly Lys Lys His Gly
 225 230 235 240
 Leu Lys Met Leu Glu Arg Ser Phe Ser Ala Arg Arg Ser Lys Arg Asn

245	250	255
Arg Lys Cys Pro Val Lys Phe Asp Asp Thr Ser Asp Asp Glu Gln Glu		
260	265	270
Ser Gly Asp Gly Ser Asp Asn Leu Asn Gln Glu Asn Phe Asp Lys Glu		
275	280	285
Lys Ser Asp Arg Asn Asp Ser Glu Asp Pro Gly Ser Glu Tyr Asn Ala		
290	295	300
Glu Glu Asp Glu Leu Glu Glu Glu Met Ser Asp Glu Tyr Ser Asp Ile		
305	310	315
Glu Glu Gln Ser Glu Lys Asp His Asn Asp Ala Glu Glu Glu Pro Glu		
325	330	335
Ala Gly Asp Ser Val Gly Asn Val His Glu Gly Leu Thr Pro Val Val		
340	345	350
Ile Gln Asn Ser Asn Lys Lys Ile Leu Gln Cys Pro Lys Cys Asp Lys		
355	360	365
Thr Phe Asp Arg Ile Gly Lys Tyr Glu Ser His Thr Arg Val His Thr		
370	375	380
Gly Glu Lys Pro Phe Glu Cys Asp Ile Cys His Gln Arg Tyr Ser Thr		
385	390	395
Lys Ser Asn Leu Thr Val His Arg Lys Lys His Ser Asn Glu Thr Glu		
405	410	415
Phe His Lys Lys Glu His Lys Cys Pro Tyr Cys Asn Lys Leu His Ala		
420	425	430
Ser Lys Lys Thr Leu Ala Lys His Val Lys Arg Phe His Pro Glu Asn		
435	440	445
Ala Gln Glu Phe Ile Ser Ile Lys Lys Thr Lys Ser Glu Ser Trp Lys		
450	455	460
Cys Asp Ile Cys Lys Lys Ser Phe Thr Arg Arg Pro His Leu Glu Glu		
465	470	475
		480

His Met Ile Leu His Ser Gln Asp Lys Pro Phe Lys Cys Thr Tyr Cys

485

490

495

Glu Glu His Phe Lys Ser Arg Phe Ala Arg Leu Lys His Gln Glu Lys

500

505

510

Phe His Leu Gly Pro Phe Pro Cys Asp Ile Cys Gly Arg Gln Phe Asn

515

520

525

Asp Thr Gly Asn Leu Lys Arg His Ile Glu Cys Thr His Gly Gly Lys

530

535

540

Arg Lys Trp Thr Cys Phe Ile Cys Gly Lys Ser Val Arg Glu Arg Thr

545

550

555

560

Thr Leu Lys Glu His Leu Arg Ile His Ser Gly Glu Lys Pro His Leu

565

570

575

Cys Ser Ile Cys Gly Gln Ser Phe Arg His Gly Ser Ser Tyr Arg Leu

580

585

590

His Leu Arg Val His His Asp Asp Lys Arg Tyr Glu Cys Asp Glu Cys

595

600

605

Gly Lys Thr Phe Ile Arg His Asp His Leu Thr Lys His Lys Lys Ile

610

615

620

His Ser Asp

625

<210> 3740

<211> 312

<212> PRT

<213> Homo sapiens

<400> 3740

Met Glu Pro Gly Glu Leu Lys Ser Trp Pro Ile Pro Pro Pro Val Pro

1	5	10	15
Ala Ala Lys Ile Glu Lys Asp Arg Thr Val Met Pro Cys Gly Thr Val			
20	25	30	
Val Thr Thr Val Thr Ala Val Lys Thr Lys Pro Arg Val Asp Val Gly			
35	40	45	
Arg Ala Ser Pro Leu Ser Ser Asp Ser Pro Val Lys Thr Pro Ile Lys			
50	55	60	
Val Lys Val Ile Glu Lys Asp Ile Ser Val Gln Ala Ile Ala Cys Arg			
65	70	75	80
Ser Ala Pro Val Ser Lys Thr Leu Ser Ser Ser Asp Thr Glu Leu Leu			
85	90	95	
Val Leu Asn Gly Ser Asp Pro Val Ala Glu Val Ala Ile Arg Gln Leu			
100	105	110	
Ser Glu Ser Ser Lys Leu Lys Leu Lys Ser Pro Arg Lys Lys Ser Thr			
115	120	125	
Ile Ile Ile Ser Gly Ile Ser Lys Thr Ser Leu Ser Gln Asp His Asp			
130	135	140	
Ala Ala Leu Met Gln Gly Tyr Thr Ala Ser Val Asp Ser Thr His Arg			
145	150	155	160
Glu Asp Ala Pro Ser His Pro Glu Arg Ala Ala Ala Ser Ala Pro Pro			
165	170	175	
Glu Glu Ala Glu Ser Ala Gln Ala Ser Leu Ala Pro Lys Pro Gln Glu			
180	185	190	
Asp Glu Leu Asp Ser Trp Asp Leu Glu Lys Glu Pro Gln Ala Ala Ala			
195	200	205	
Trp Ser Ser Gln Val Leu Leu Asp Pro Asp Gly Asp Glu Leu Ser Glu			
210	215	220	
Ser Ser Met Ser Val Leu Glu Pro Gly Thr Ala Lys Lys His Lys Gly			
225	230	235	240

Gly Ile Leu Arg Lys Gly Ala Lys Leu Phe Phe Arg Arg Arg His Gln
 245 250 255
 Gln Lys Asp Pro Gly Met Ser Gln Ser His Asn Asp Leu Val Phe Leu
 260 265 270
 Glu Gln Pro Glu Gly Ser Arg Arg Lys Gly Ile Thr Leu Thr Arg Ile
 275 280 285
 Leu Asn Lys Lys Leu Leu Ser Arg His Arg Asn Lys Asn Thr Met Asn
 290 295 300
 Gly Ala Pro Val Glu Pro Cys Thr
 305 310

<210> 3741

<211> 140

<212> PRT

<213> Homo sapiens

<400> 3741

Met Met Asn Val Tyr Ile Leu His Met Cys Val Cys Val Ile Lys Cys
 1 5 10 15
 Gln Ala Gly Val Ala Glu Leu Ser Trp Gln Asn Met Arg Val Tyr Ile
 20 25 30
 Pro Ala Gly Cys Arg Gly Met Ser Ser Ser Val Gly Cys Ile Ala Gly
 35 40 45
 Ala Ser Ala Glu Lys Gly Glu Ile Phe Thr Leu Pro Leu Thr Ser Pro
 50 55 60
 Gly His Phe Pro Leu Pro Leu Trp Thr Ser Val Cys Ser Ser Val Glu
 65 70 75 80
 Trp Asp Asn Ser Ala Ser Pro Ala Tyr Tyr Leu Gly Leu Cys Asp Ala

	85	90	95
Cys Arg Cys Thr Gly Lys Ala Leu Leu Met Gly Ala Ala Glu Val Ser			
100	105	110	
Arg Gly Gly Glu Gly Gly Ala Ser Ser Pro Gly Leu Ser Gly Arg Trp			
115	120	125	
Cys Arg Glu Arg Arg Ile Ser Phe Cys Gly Ser Ser			
130	135	140	

<210> 3742

<211> 294

<212> PRT

<213> Homo sapiens

<400> 3742

Met Val Ile Val Ser Pro Arg Val His Gly Ser Tyr Glu His Leu Trp			
1	5	10	15
Ala Gly Gln Val Ala Asp Ala Leu Val Asp Leu Thr Gly Gly Leu Ala			
20	25	30	
Glu Arg Trp Asn Leu Lys Gly Val Ala Gly Ser Gly Gly Gln Gln Asp			
35	40	45	
Arg Pro Gly Arg Trp Glu His Arg Thr Cys Arg Gln Leu Leu His Leu			
50	55	60	
Lys Asp Gln Cys Leu Ile Ser Cys Cys Val Leu Ser Pro Arg Ala Gly			
65	70	75	80
Ala Arg Glu Leu Gly Glu Phe His Ala Phe Ile Val Ser Asp Leu Arg			
85	90	95	
Glu Leu Gln Gly Gln Ala Gly Gln Cys Ile Leu Leu Leu Arg Ile Gln			
100	105	110	

Asn Pro Trp Gly Arg Arg Cys Trp Gln Gly Leu Trp Arg Glu Gly Gly
 115 120 125
 Glu Gly Trp Ser Gln Val Asp Ala Ala Val Ala Ser Glu Leu Leu Ser
 130 135 140
 Gln Leu Gln Glu Gly Glu Phe Trp Val Glu Glu Glu Glu Phe Leu Arg
 145 150 155 160
 Glu Phe Asp Glu Leu Thr Val Gly Tyr Pro Val Thr Glu Ala Gly His
 165 170 175
 Leu Gln Ser Leu Tyr Thr Glu Arg Leu Leu Cys His Thr Arg Ala Leu
 180 185 190
 Pro Gly Ala Trp Val Lys Gly Gln Ser Ala Gly Gly Cys Arg Asn Asn
 195 200 205
 Ser Gly Phe Pro Ser Asn Pro Lys Phe Trp Leu Arg Val Ser Glu Pro
 210 215 220
 Ser Glu Val Tyr Ile Ala Val Leu Gln Arg Ser Arg Leu His Ala Ala
 225 230 235 240
 Asp Trp Ala Gly Arg Ala Arg Ala Leu Val Gly Asp Ser His Thr Ser
 245 250 255
 Trp Ser Pro Ala Ser Ile Pro Gly Lys His Tyr Gln Ala Val Gly Leu
 260 265 270
 His Leu Trp Lys Gly Val Thr Leu Gly Thr Thr Leu Phe Pro Val Pro
 275 280 285
 Ser Trp Met Trp Pro Thr
 290

<210> 3743

<211> 599

<212> PRT

<213> Homo sapiens

<400> 3743

Met Ala Pro Ala Leu Gly Arg Val Gly Lys Val Val Lys Val Phe Gly
1 5 10 15
Asp Gly Asn Leu Arg Val Ala Val Ala Gly Gln Arg Trp Thr Phe Ser
20 25 30
Pro Ser Cys Leu Val Ala Tyr Arg Pro Glu Glu Asp Ala Asn Leu Asp
35 40 45
Val Ala Glu Arg Ala Arg Glu Asn Lys Ser Ser Leu Ser Val Ala Leu
50 55 60
Asp Lys Leu Arg Ala Gln Lys Ser Asp Pro Glu His Pro Gly Arg Leu
65 70 75 80
Val Val Glu Val Ala Leu Gly Asn Ala Ala Arg Ala Leu Asp Leu Leu
85 90 95
Arg Arg Arg Pro Glu Gln Val Asp Thr Lys Asn Gln Gly Arg Thr Ala
100 105 110
Leu Gln Val Ala Ala Tyr Leu Gly Gln Val Glu Leu Ile Arg Leu Leu
115 120 125
Leu Gln Ala Arg Ala Gly Val Asp Leu Pro Asp Asp Glu Gly Asn Thr
130 135 140
Ala Leu His Tyr Ala Ala Leu Gly Asn Gln Pro Glu Ala Thr Arg Val
145 150 155 160
Leu Leu Ser Ala Gly Cys Arg Ala Asp Ala Ile Asn Ser Thr Gln Ser
165 170 175
Thr Ala Leu His Val Ala Val Gln Arg Gly Phe Leu Glu Val Val Arg
180 185 190
Ala Leu Cys Glu Arg Gly Cys Asp Val Asn Leu Pro Asp Ala His Ser
195 200 205

Asp Thr Pro Leu His Ser Ala Ile Ser Ala Gly Thr Gly Ala Ser Gly
210 215 220
Ile Val Glu Val Leu Thr Glu Val Pro Asn Ile Asp Val Thr Ala Thr
225 230 235 240
Asn Ser Gln Gly Phe Thr Leu Leu His His Ala Ser Leu Lys Gly His
245 250 255
Ala Leu Ala Val Arg Lys Ile Leu Ala Arg Ala Arg Gln Leu Val Asp
260 265 270
Ala Lys Lys Glu Asp Gly Phe Thr Ala Leu His Leu Ala Ala Leu Asn
275 280 285
Asn His Arg Glu Val Ala Gln Ile Leu Ile Arg Glu Gly Arg Cys Asp
290 295 300
Val Asn Val Arg Asn Arg Lys Leu Gln Ser Pro Leu His Leu Ala Val
305 310 315 320
Gln Gln Ala His Val Gly Leu Val Pro Leu Leu Val Asp Ala Gly Cys
325 330 335
Ser Val Asn Ala Glu Asp Glu Glu Gly Asp Thr Ala Leu His Val Ala
340 345 350
Leu Gln Arg His Gln Leu Leu Pro Leu Val Ala Asp Gly Ala Gly Gly
355 360 365
Asp Pro Gly Pro Leu Gln Leu Leu Ser Arg Leu Gln Ala Ser Gly Leu
370 375 380
Pro Gly Ser Ala Glu Leu Thr Val Gly Ala Ala Val Ala Cys Phe Leu
385 390 395 400
Ala Leu Glu Gly Ala Asp Val Ser Tyr Thr Asn His Arg Gly Arg Ser
405 410 415
Pro Leu Asp Leu Ala Ala Glu Gly Arg Val Leu Lys Ala Leu Gln Gly
420 425 430
Cys Ala Gln Arg Phe Arg Glu Arg Gln Ala Gly Gly Gly Ala Ala Pro

435 440 445
Gly Pro Arg Gln Thr Leu Gly Thr Pro Asn Thr Val Thr Asn Leu His
450 455 460
Val Gly Ala Ala Pro Gly Pro Glu Ala Ala Glu Cys Leu Val Cys Ser
465 470 475 480
Glu Leu Ala Leu Leu Val Leu Phe Ser Pro Cys Gln His Arg Thr Val
485 490 495
Cys Glu Glu Cys Ala Arg Arg Met Lys Lys Cys Ile Arg Cys Gln Val
500 505 510
Val Val Ser Lys Lys Leu Arg Pro Asp Gly Ser Glu Val Ala Ser Ala
515 520 525
Ala Pro Ala Pro Gly Pro Pro Arg Gln Leu Val Glu Glu Leu Gln Ser
530 535 540
Arg Tyr Arg Gln Met Glu Glu Arg Ile Thr Cys Pro Ile Cys Ile Asp
545 550 555 560
Ser His Ile Arg Leu Val Phe Gln Cys Gly His Gly Ala Cys Ala Pro
565 570 575
Cys Gly Ser Ala Leu Ser Ala Cys Pro Val Cys Arg Gln Pro Ile Arg
580 585 590
Asp Arg Ile Gln Ile Phe Val
595

<210> 3744

<211> 138

<212> PRT

<213> Homo sapiens

<400> 3744

Met Ser His Arg Ala Gln Leu Ile Phe Val Phe Leu Phe Tyr Leu Phe
 1 5 10 15
 Ile Tyr Phe Leu Gly Asp Gly Val Leu Leu Cys His Pro Gly Trp Ser
 20 25 30
 Ala Val Val Arg Ser Trp Leu Thr Ala Thr Ser Ala Ser Gln Val Ala
 35 40 45
 Gly Ile Thr Gly Met His His His Ala Gln Leu Ile Phe Val Phe Leu
 50 55 60
 Val Glu Met Gly Phe His Cys Val Gly Gln Ala Gly Leu Glu Leu Leu
 65 70 75 80
 Thr Ser Gly Asp Pro Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Ile
 85 90 95
 Gly Val Ser His Cys Thr Arg Pro Asn Phe Cys Ile Phe Ser Arg Asp
 100 105 110
 Gly Val Ser Pro Cys Trp Leu Ser Trp Ser Gly Thr His Gly Leu Lys
 115 120 125
 Leu Ser Ala His Leu Ser Leu Pro Lys Cys
 130 135

<210> 3745

<211> 110

<212> PRT

<213> Homo sapiens

<400> 3745

Met Val Thr Leu Glu Val Lys Gly Ser Arg Ile Leu Leu Tyr Leu Asp
 1 5 10 15
 Ser Asn Phe Ser Leu Met Ala Lys Pro Leu Asp Gly Val Thr Lys Gly

	20		25		30										
Glu	Glu	Lys	Glu	Pro	Leu	Leu	Trp	Glu	Thr	Ala	Gly	Glu	Gly	Ala	Leu
	35		40		45										
Pro	Gly	Glu	Asn	Leu	Leu	Ile	Asp	Phe	Thr	Glu	Pro	Pro	Arg	Ala	Gly
	50		55		60										
Gly	Tyr	Trp	Phe	Met	Leu	Val	Leu	Val	Cys	Thr	Phe	Ser	Gly	Cys	Tyr
	65		70		75										80
Val	Leu	Asp	Pro	Pro	Gln	Ser	Ala	Asn	Thr	Gly	Ser	Ser	Gly	Gln	Val
			85		90									95	
Asn	Gln	Pro	Ala	Gly	Pro	Arg	Ser	Ser	Asn	Leu	Ala	Asp	Pro		
	100		105		110										

<210> 3746

<211> 1300

<212> PRT

<213> Homo sapiens

<400> 3746

Met	Asn	Ser	Asn	His	Cys	Tyr	Tyr	Lys	His	Pro	Lys	Val	Gln	Glu	Lys
1				5					10					15	
Ala	Leu	Trp	Arg	Arg	Arg	Glu	Val	Leu	Val	Glu	Ala	Glu	Leu	Asp	Glu
			20					25					30		
Ser	Tyr	Pro	Asn	Pro	Thr	Cys	Tyr	His	Cys	Lys	Asn	Lys	Cys	Leu	Pro
	35						40					45			
Gly	Lys	Val	Pro	Ala	Glu	His	Ile	Thr	Asp	Ile	Glu	Asp	Phe	His	His
	50					55					60				
Leu	Arg	Phe	Arg	Tyr	Lys	Tyr	Thr	Cys	Asp	Asp	Pro	Asp	Tyr	Pro	Trp
	65				70				75						80

Ser Asp Trp Val Asn Tyr Asp Val Phe Leu Ala Thr Met Thr Thr Lys
 85 90 95
 Phe Asn Glu Phe Arg Lys Arg Glu Ser Ile Met Phe Gln Arg Arg Ile
 100 105 110
 Ala Gln Asn Asn Ala Val Thr Leu Pro Ser Ser Phe Asn Met Asn Gly
 115 120 125
 Ala Ser Ile Lys Arg Glu Trp Ile Ala Ala Val Ala Glu Arg Thr Arg
 130 135 140
 Met Arg Lys Ser Tyr Val Asn Arg Val Ala Glu Ala Val Ser Gly Glu
 145 150 155 160
 Leu His Asn Ala Leu Ser Val Thr Lys Asp Lys Leu Glu Ser Thr Phe
 165 170 175
 Lys Asn Leu Phe Val Trp Thr Asp Glu Thr Arg Pro Asn Asp Asn Cys
 180 185 190
 Glu Asp Cys Ala Ile Val Lys Met Lys Cys Ala Lys Cys Lys Tyr Trp
 195 200 205
 Ala Ser Asp Ile Cys Ile Glu Lys Phe Lys Lys Glu Met Ala Pro Ala
 210 215 220
 Asp Tyr Asp Phe Asp Asp Pro Phe Phe Ala Asp Ile Lys Ser Tyr Ser
 225 230 235 240
 Gly Ser Ser Ser Ser Val Gly Val Ile Gln Asp Ile Leu Glu Ala Ser
 245 250 255
 Thr Ser Lys Glu Phe Gln Gly Pro Gly Ala Val Asn Ile Met Gly Thr
 260 265 270
 Phe Leu Glu Arg Asn Asp Leu Gln Val Ser Pro Ile Val Ile Ser Trp
 275 280 285
 Leu Leu Asp Leu Pro Asn Gln Tyr Pro Ala Asn Ile Ile Thr Asn Phe
 290 295 300
 Val Gly Phe Leu Lys Gln Asn Ile Val Ala Ile Asn Arg Glu Leu Ile

305	310	315	320
Lys Tyr Met Ser Ile Ser Arg Gly Ile Lys Met Phe Lys Tyr Val Cys			
	325	330	335
Lys Thr Ile Ala Cys Asp Tyr His Asp Pro Asp Tyr Tyr Asn Ile Gln			
	340	345	350
Tyr Val Asn Gly Ser Phe Thr Met Cys Cys Glu Pro Pro Leu Glu Leu			
	355	360	365
Lys Gln Leu Leu Glu Pro Val Ile Asp Lys Met Ala Phe Asn Arg Leu			
	370	375	380
Leu Ser Ser Lys Cys Tyr Cys Phe Ala Asp Asn Arg Cys Ser Leu Gln			
385	390	395	400
Leu Pro Trp Ala Val Arg Glu Cys Val Lys Lys Cys Leu Ala Thr Lys			
	405	410	415
Asp Lys Lys Glu Ala Trp Met Leu Gly Leu Leu Gln Pro Val Lys Glu			
	420	425	430
Leu Pro Glu Gln Phe Phe Ser Lys Met Trp Gln Glu Phe Ser Ile Ala			
	435	440	445
Phe Thr Lys Leu Ser Glu Trp Leu Pro Lys Ser Gly Gln Met Ile Trp			
	450	455	460
Asp Phe Val Leu Ser Ala Asn Gly Ile Leu Ser Val Leu Ser Ala Val			
465	470	475	480
Leu Ile Gly Thr Ala Ile Ala Arg Asn Cys Lys Ser Met His Asn Glu			
	485	490	495
Asp Lys Ile Val Glu Gly Ile Asn Asn Val Asn Arg Arg Val Phe Glu			
	500	505	510
Ser Asn Ala Tyr Asn Leu Val Pro Ala Thr Val Lys Ser Val Lys Pro			
	515	520	525
Ala Ser Val Lys Phe Gln Ser Leu Ser Gln Gln Thr Val Val Cys Asp			
	530	535	540

Lys Leu Leu Glu Asp Asn Ile Val Thr Met Leu Leu Ser Ser Glu Asn
545 550 555 560
Glu Asn Gly His Val Cys Thr Lys Ser Tyr Gln Cys Leu Met Leu Arg
565 570 575
Asn Lys Thr Met Cys Ile Gln Arg His Tyr Tyr Asp Glu Trp Ile Arg
580 585 590
Met Pro Phe Asn Thr Lys Phe Tyr Leu Gln Cys Lys Lys Thr Val Ser
595 600 605
Ala Ala Tyr Pro Tyr Gly Tyr Gln Ile Leu Leu Lys Asn Leu Lys Val
610 615 620
Ile Trp Gly Ser Gly Val Asp Val Asp Gly Ser Tyr Thr Ser Asn Val
625 630 635 640
Gly Leu Val Glu Leu Pro Met Ser Val Pro Ser Phe Lys Asp Leu Thr
645 650 655
Lys Phe Ile Ala Lys Glu Val Asp His Glu Tyr Val Asn Ser Gln Glu
660 665 670
Cys Trp Ile Phe Asp Ser Ile Glu Arg Lys Arg Cys Lys Val Pro Ile
675 680 685
Thr Val Asp Tyr Lys His Thr Thr Ser Asp Asp Ser Gly Thr Val Arg
690 695 700
Leu Lys Gln Ala Tyr Lys Tyr Pro Tyr Ser Lys Val Gly Met Cys Cys
705 710 715 720
Ser Val Leu Leu Cys Ala Ser Leu Glu Arg Pro Ile Ile Gly Leu His
725 730 735
Phe Ser Gly Ser Ala Arg Phe Gly Tyr Ser Glu Tyr Leu Thr Tyr Glu
740 745 750
Ser Phe Asn Glu Asn Ile Pro Thr Arg Val Asp Lys Glu Tyr Val Phe
755 760 765
Glu Ser Phe Ser His Lys Leu Glu Asp Val Glu Leu Ser Lys Leu Ser

770	775	780
Phe Asp Thr Met Leu Tyr Pro Cys Gly Val Val Pro Ala Glu Leu Arg		
785	790	795
Gln His Gln Ser Gly Lys Thr Gln Ile Ile Pro Ser Ser Ile His Gly		
805	810	815
Thr Tyr Pro Val Thr Ser Glu Pro Asn Pro Leu Ser Cys Ser Asp Pro		
820	825	830
Arg Leu Pro Lys Gly Cys Ser Pro Leu Lys Leu Gly Ile Glu His Met		
835	840	845
Gly Arg Pro Val Leu Asp Phe Pro Thr Asp Leu Ile Glu Lys Ala Lys		
850	855	860
Glu Asp Leu Val Glu Val Val Leu Thr Asn Val His Pro Ile Arg Lys		
865	870	875
Val Gly Leu Val Ser Glu Gln Asp Ala Val Cys Gly Asn Thr Gln Val		
885	890	895
Lys Gly Phe Glu Pro Leu Glu Trp Ser Thr Ser Glu Gly Phe Pro Leu		
900	905	910
Ser Ala Leu Arg Pro Lys Thr Thr Lys Gly Lys Lys Trp Leu Phe Asp		
915	920	925
Leu Glu Glu Thr Pro Glu Gly Tyr Lys Leu Lys Lys Met His Pro Glu		
930	935	940
Leu Tyr Arg Thr Leu Lys Leu Glu Tyr Asn Leu Arg Val Arg Gly Ile		
945	950	955
Arg Val Pro Thr Val Phe Thr Asp Cys Leu Lys Asp Thr Cys Ile Ser		
965	970	975
Thr Glu Lys Cys Arg Ile Pro Gly Lys Thr Arg Ile Phe Ser Ile Ser		
980	985	990
Pro Val Gln Tyr Thr Ile Ala Phe Lys Met Tyr Phe Gly Asp Phe Leu		
995	1000	1005

Ala Ser Tyr Gln Asn Ala Arg Leu Ser Ala Glu His Ala Ile Gly Ile
 1010 1015 1020
 Asp Pro Asn Ser His Asp Trp Ser Glu Leu Ala Ser Phe Leu Thr Gln
 1025 1030 1035 1040
 Lys Gly Thr Ser Ile Ile Ala Gly Asp Tyr Lys Asn Phe Gly Pro Gly
 1045 1050 1055
 Leu Met Leu Thr Cys Val Lys Ala Val Cys Asp Val Ile Ile Ala Trp
 1060 1065 1070
 Tyr Glu Leu His Asp Pro Asp Val Glu Arg Met Leu Ile Arg Arg Val
 1075 1080 1085
 Ile Leu Ser Glu Leu Leu His Ala Lys His Phe Ala Leu Asn Leu Ile
 1090 1095 1100
 Tyr Glu Val Ser Ala Gly Ile Pro Ser Gly Ser Pro Ile Thr Ala Pro
 1105 1110 1115 1120
 Leu Asn Ser Leu Val Asn Cys Met Tyr Val Arg Cys Ala Trp Leu Asp
 1125 1130 1135
 Ile Ile Lys Glu Pro Leu Leu His Phe Arg Arg Ala Cys Asn Met Val
 1140 1145 1150
 Thr Tyr Gly Asp Asp Ile Cys Ile Cys Val Ser Pro Leu Tyr Ile Asp
 1155 1160 1165
 Lys Phe Asn Thr Leu Thr Leu His Asn Phe Phe Ala Lys Tyr Asn Ile
 1170 1175 1180
 Val Phe Thr Asp Gln Asp Lys Ser Asp Asn Ile Ile Pro Phe Arg Thr
 1185 1190 1195 1200
 Leu Asp Thr Val Thr Phe Leu Lys Arg Gly Phe Arg Pro His Pro Thr
 1205 1210 1215
 Leu Pro Ser Glu Met Leu Ala Pro Ile Asp Ile Glu Ser Ile Tyr Lys
 1220 1225 1230
 Cys Thr Asn Trp Ile Lys Asn Lys Gly Asp Pro Thr Glu Asn Thr Leu

1235 1240 1245
 Gln Asn Cys Val Gln Ala Val Glu Leu Ala Phe Gly His Gly Lys Tyr
 1250 1255 1260
 Val Tyr Thr Glu Ile Arg Asn Asn Leu Leu Asn Val Cys Arg Glu Thr
 1265 1270 1275 1280
 Val Gly Lys Thr Phe Glu Ser Tyr Thr Trp Asp Asp Met Ser Asp Arg
 1285 1290 1295
 Cys Tyr Arg Thr
 1300

<210> 3747

<211> 456

<212> PRT

<213> Homo sapiens

<400> 3747

Met Thr Thr Asp Glu Gly Thr Ser Asn Asn Glu Glu Asn Pro Ala Ala
 1 5 10 15
 Thr Val Val Glu Gln Gly Glu Asp Ile Thr Thr Lys Lys Asp Arg Gly
 20 25 30
 Val Leu Lys Ile Val Lys Arg Val Gly Thr Ser Glu Glu Thr Pro Met
 35 40 45
 Ile Gly Asp Lys Val Tyr Val His Tyr Lys Gly Lys Leu Ser Asn Gly
 50 55 60
 Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Glu Pro Phe Val Phe Ser
 65 70 75 80
 Leu Gly Lys Gly Gln Val Ile Lys Ala Trp Asp Ile Gly Val Ser Thr
 85 90 95

Met Lys Lys Gly Glu Ile Cys His Leu Leu Cys Lys Pro Glu Tyr Ala
100 105 110
Tyr Gly Ser Ala Gly Ser Leu Pro Lys Ile Pro Ser Asn Ala Thr Leu
115 120 125
Phe Phe Glu Ile Glu Leu Leu Asp Phe Lys Gly Glu Asp Leu Phe Glu
130 135 140
Asp Ser Gly Ile Ile Arg Arg Ile Lys Arg Lys Gly Glu Gly Tyr Ser
145 150 155 160
Asn Pro Asn Glu Gly Ala Thr Val Glu Val His Leu Glu Gly Cys Cys
165 170 175
Ala Gly Arg Val Phe Asp Cys Arg Asp Val Val Phe Val Ile Gly Glu
180 185 190
Gly Glu Asp His Asp Ile Pro Ile Gly Ile Asp Lys Ala Leu Glu Lys
195 200 205
Met Gln Arg Glu Glu Gln Cys Ile Leu Tyr Leu Gly Pro Gln Tyr Gly
210 215 220
Phe Gly Glu Ala Gly Lys Pro Lys Phe Gly Ile Glu Pro Asn Ala Glu
225 230 235 240
Leu Met Tyr Glu Val Thr Leu Lys Ser Phe Glu Lys Ala Lys Glu Ser
245 250 255
Trp Glu Met Asp Thr Lys Glu Lys Leu Glu Gln Ala Ala Ile Val Lys
260 265 270
Glu Lys Gly Thr Val Tyr Phe Lys Gly Gly Lys Tyr Met Gln Ala Val
275 280 285
Ile Gln Tyr Gly Lys Ile Val Ser Trp Leu Glu Met Glu Tyr Gly Leu
290 295 300
Ser Glu Lys Glu Ser Lys Ala Ser Glu Ser Phe Leu Leu Ala Ala Phe
305 310 315 320
Leu Asn Leu Ala Met Cys Tyr Leu Lys Leu Arg Glu Tyr Thr Lys Ala

325 330 335
 Val Glu Cys Cys Asp Lys Ala Leu Gly Leu Asp Ser Ala Asn Glu Lys
 340 345 350
 Gly Leu Tyr Arg Arg Gly Glu Ala Gln Leu Leu Met Asn Glu Phe Glu
 355 360 365
 Ser Ala Lys Gly Asp Phe Glu Lys Val Leu Glu Val Asn Pro Gln Asn
 370 375 380
 Lys Ala Ala Arg Leu Gln Ile Ser Val Cys Gln Arg Lys Ala Lys Glu
 385 390 395 400
 His Asn Glu Arg Asp Arg Arg Val Tyr Ala Asn Met Phe Lys Lys Phe
 405 410 415
 Ala Glu Gln Asp Ala Lys Glu Glu Ala Ser Lys Ala Leu Ser Lys Lys
 420 425 430
 Ala Val Glu Gly Ala Ala Gly Lys Lys His Glu Ser Gln Thr Met Gly
 435 440 445
 Glu Gly Lys Ala Glu Gly His Val
 450 455

<210> 3748

<211> 157

<212> PRT

<213> Homo sapiens

<400> 3748

Met Gly Glu Asp Arg Gln Ala Ser Leu Gly Ala Phe Leu Gly Cys Glu
 1 5 10 15
 Glu Asp Gly Arg Glu Phe Gln Ala Lys Val Trp Ser Asp Cys Ala Arg
 20 25 30

His Asp Val Trp Ala His Arg Gln Leu Pro Thr Gly Gly Ala Val Ala
 35 40 45
 Leu Ser Val Val Met Gly Leu Glu Ala Glu Asn Trp Ala Gly Leu Lys
 50 55 60
 Ala Arg Leu Gly Leu Phe Gly Val Pro His Arg Ala Val Arg Glu Glu
 65 70 75 80
 Gly Leu Cys Val Gly Trp Glu Glu Gln Cys Leu Cys Phe Leu Pro Gly
 85 90 95
 Ser Thr Val Asn Asp Thr Trp Gly Leu Glu Gln Ala Ser Phe Pro Ala
 100 105 110
 Leu Ser Leu Pro Ile Leu Phe Val Arg Trp Met Pro Trp Phe Ser Val
 115 120 125
 Pro Leu Leu Gly Lys Asn Thr Tyr Ser Ala Leu Pro Leu Gln Phe Arg
 130 135 140
 Ser Gly Glu Pro Ile Gln Val Gln Arg Ala Ser Leu Gly
 145 150 155

<210> 3749

<211> 110

<212> PRT

<213> Homo sapiens

<400> 3749

Met Gln Leu Pro Lys Gly Asn Arg Cys Lys Tyr Glu Pro Ile His Ile
 1 5 10 15
 Tyr Phe Phe Pro Ser Phe Phe Phe Leu Arg Trp Ser Leu Ala Leu Ser
 20 25 30
 Pro Arg Leu Glu Cys Ser Gly Val Asp Leu Ser Ser Leu Gln Pro Pro

35	40	45
Pro Pro Lys Phe Lys Arg Phe Ser Cys Leu Ser Leu Leu Ser Ser Trp		
50	55	60
Asp Cys Arg Arg Ala Pro Pro Cys Pro Ala Asn Phe Cys Ile Phe Ser		
65	70	75
Arg Asn Gly Val Ser Pro Cys Trp Pro Gly Trp Ser Arg Ser Leu Asp		
85	90	95
Leu Val Ile Gln Pro Pro Leu Pro Pro Thr Val Leu Gly Leu		
100	105	110

<210> 3750

<211> 185

<212> PRT

<213> Homo sapiens

<400> 3750

Met Phe Gly Gly Leu Ser Gly Ala Thr Val Ile Asp Ser Leu Asp Thr		
1	5	10
Leu Tyr Leu Met Glu Leu Lys Glu Glu Phe Gln Glu Ala Lys Ala Trp		
20	25	30
Val Gly Glu Ser Phe His Leu Asn Val Ser Gly Glu Ala Ser Leu Phe		
35	40	45
Glu Val Asn Ile Arg Tyr Ile Gly Gly Leu Leu Ser Ala Phe Tyr Leu		
50	55	60
Thr Gly Glu Glu Val Phe Arg Ile Lys Ala Ile Arg Leu Gly Glu Lys		
65	70	75
Leu Leu Pro Ala Phe Asn Thr Pro Thr Gly Ile Pro Lys Gly Val Val		
85	90	95

Ser Phe Lys Ser Gly Asn Trp Gly Trp Ala Thr Ala Gly Ser Ser Ser
 100 105 110
 Ile Leu Ala Glu Phe Gly Ser Leu His Leu Glu Phe Leu His Leu Thr
 115 120 125
 Glu Leu Ser Gly Asn Gln Val Phe Ala Glu Lys Ala Ser Leu Leu Pro
 130 135 140
 Thr Leu Leu Pro Ala Glu Gln Arg Asp Glu Arg Ala Ala Ala Thr Gly
 145 150 155 160
 Phe Ser Glu Ala Ser Gly Ser Ser Leu Met Asp Gln Gln Glu Gly Ser
 165 170 175
 Gly Glu Pro Gly Ser Pro Ser Tyr His
 180 185

<210> 3751

<211> 102

<212> PRT

<213> Homo sapiens

<400> 3751

Met Pro Leu Arg Leu Asp Ile Lys Arg Lys Leu Thr Ala Arg Ser Asp
 1 5 10 15
 Arg Val Lys Ser Val Asp Leu His Pro Thr Glu Pro Trp Met Leu Ala
 20 25 30
 Ser Leu Tyr Asn Gly Ser Val Cys Val Trp Asn His Glu Thr Gln Val
 35 40 45
 Gly Ile Phe Gln Asp Phe Ile Arg Asn Lys Ile Leu Cys Glu Thr Val
 50 55 60
 Phe Ile Met Lys Glu Lys Lys Tyr Tyr Asn Arg Ile Gln Asn Leu Tyr

65	70	75	80
Ala Asn Cys Phe Leu Lys Leu Val Gln Ser Ile Leu Asn Met Lys Glu			
	85	90	95
Leu Thr Phe Met Arg Gly			
100			

<210> 3752

<211> 1407

<212> PRT

<213> Homo sapiens

<400> 3752

Met Glu Ala Glu Phe Tyr Met Val Ile Leu Thr Cys Leu Ile Phe Arg			
1	5	10	15
Asn Ser Glu Gly Phe Gln Ile Val His Val Gln Lys Gln Gln Cys Leu			
	20	25	30
Phe Lys Asn Glu Lys Val Val Val Gly Ser Cys Asn Arg Thr Ile Gln			
	35	40	45
Asn Gln Gln Trp Met Trp Thr Glu Asp Glu Lys Leu Leu His Val Lys			
	50	55	60
Ser Ala Leu Cys Leu Ala Phe Ile Arg Asn Ala Ala Glu Asn Tyr Ser			
65	70	75	80
Gln Asn Ser Ser Glu Arg Gln His Pro Asn Leu His Met Thr Gly Ile			
	85	90	95
Thr Asp Thr Ser Trp Val Leu Ser Thr Thr Gln Pro Phe Ser Ser Thr			
	100	105	110
Thr Glu Glu Thr Gly Leu Ala Glu Pro Glu Arg Cys Asn Phe Thr Leu			
	115	120	125

Ala Glu Ser Lys Ala Ser Ser His Ser Val Ser Ile Gln Trp Arg Ile
 130 135 140
 Leu Gly Ser Pro Cys Asn Phe Ser Leu Ile Tyr Ser Ser Asp Thr Leu
 145 150 155 160
 Gly Ala Ala Leu Cys Pro Thr Phe Arg Ile Asp Asn Thr Thr Tyr Gly
 165 170 175
 Cys Asn Leu Gln Asp Leu Gln Ala Gly Thr Ile Tyr Asn Phe Arg Ile
 180 185 190
 Ile Ser Leu Asp Glu Glu Arg Thr Val Val Leu Gln Thr Asp Pro Leu
 195 200 205
 Pro Pro Ala Arg Phe Gly Val Ser Lys Glu Lys Thr Thr Ser Thr Ser
 210 215 220
 Leu His Val Trp Trp Thr Pro Ser Ser Gly Lys Val Thr Ser Tyr Glu
 225 230 235 240
 Val Gln Leu Phe Asp Glu Asn Asn Gln Lys Ile Gln Gly Val Gln Ile
 245 250 255
 Gln Glu Ser Thr Ser Trp Asn Glu Tyr Thr Phe Phe Asn Leu Thr Ala
 260 265 270
 Gly Ser Lys Tyr Asn Ile Ala Ile Thr Ala Val Ser Gly Gly Lys Arg
 275 280 285
 Ser Phe Ser Val Tyr Thr Asn Gly Ser Thr Val Pro Ser Pro Val Lys
 290 295 300
 Asp Ile Gly Ile Ser Thr Lys Ala Asn Ser Leu Leu Ile Ser Trp Ser
 305 310 315 320
 His Gly Ser Gly Asn Val Glu Arg Tyr Arg Leu Met Leu Met Asp Lys
 325 330 335
 Gly Ile Leu Val His Gly Gly Val Val Asp Lys His Ala Thr Ser Tyr
 340 345 350
 Ala Phe His Gly Leu Thr Pro Gly Tyr Leu Tyr Asn Leu Thr Val Met

355	360	365
Thr Glu Ala Ala Gly Leu Gln Asn Tyr Arg Trp Lys Leu Val Arg Thr		
370	375	380
Ala Pro Met Glu Val Ser Asn Leu Lys Val Thr Asn Asp Gly Ser Leu		
385	390	395
Thr Ser Leu Lys Val Lys Trp Gln Arg Pro Pro Gly Asn Val Asp Ser		
405	410	415
Tyr Asn Ile Thr Leu Ser His Lys Gly Thr Ile Lys Glu Ser Arg Val		
420	425	430
Leu Ala Pro Trp Ile Thr Glu Thr His Phe Lys Glu Leu Val Pro Gly		
435	440	445
Arg Leu Tyr Gln Val Thr Val Ser Cys Val Ser Gly Glu Leu Ser Ala		
450	455	460
Gln Lys Met Ala Val Gly Arg Thr Phe Pro Asp Lys Val Ala Asn Leu		
465	470	475
Glu Ala Asn Asn Asn Gly Arg Met Arg Ser Leu Val Val Ser Trp Ser		
485	490	495
Pro Pro Ala Gly Asp Trp Glu Gln Tyr Arg Ile Leu Leu Phe Asn Asp		
500	505	510
Ser Val Val Leu Leu Asn Ile Thr Val Gly Lys Glu Glu Thr Gln Tyr		
515	520	525
Val Met Asp Asp Thr Gly Leu Val Pro Gly Arg Gln Tyr Glu Val Glu		
530	535	540
Val Ile Val Glu Ser Gly Asn Leu Lys Asn Ser Glu Arg Cys Gln Gly		
545	550	555
Arg Thr Val Pro Leu Ala Val Leu Gln Leu Arg Val Lys His Ala Asn		
565	570	575
Glu Thr Ser Leu Ser Ile Met Trp Gln Thr Pro Val Ala Glu Trp Glu		
580	585	590

Lys Tyr Ile Ile Ser Leu Ala Asp Arg Asp Leu Leu Leu Ile His Lys
 595 600 605
 Ser Leu Ser Lys Asp Ala Lys Glu Phe Thr Phe Thr Asp Leu Val Pro
 610 615 620
 Gly Arg Lys Tyr Met Ala Thr Val Thr Ser Ile Ser Gly Asp Leu Lys
 625 630 635 640
 Asn Ser Ser Ser Val Lys Gly Arg Thr Val Pro Ala Gln Val Thr Asp
 645 650 655
 Leu His Val Ala Asn Gln Gly Met Thr Ser Ser Leu Phe Thr Asn Trp
 660 665 670
 Thr Gln Ala Gln Gly Asp Val Glu Phe Tyr Gln Val Leu Leu Ile His
 675 680 685
 Glu Asn Val Val Ile Lys Asn Glu Ser Ile Ser Ser Glu Thr Ser Arg
 690 695 700
 Tyr Ser Phe His Ser Leu Lys Ser Gly Ser Leu Tyr Ser Val Val Val
 705 710 715 720
 Thr Thr Val Ser Gly Gly Ile Ser Ser Arg Gln Val Val Val Glu Gly
 725 730 735
 Arg Thr Val Pro Ser Ser Val Ser Gly Val Thr Val Asn Asn Ser Gly
 740 745 750
 Arg Asn Asp Tyr Leu Ser Val Ser Trp Leu Leu Ala Pro Gly Asp Val
 755 760 765
 Asp Asn Tyr Glu Val Thr Leu Ser His Asp Gly Lys Val Val Gln Ser
 770 775 780
 Leu Val Ile Ala Lys Ser Val Arg Glu Cys Ser Phe Ser Ser Leu Thr
 785 790 795 800
 Pro Gly Arg Leu Tyr Thr Val Thr Ile Thr Thr Arg Ser Gly Lys Tyr
 805 810 815
 Glu Asn His Ser Phe Ser Gln Glu Arg Thr Val Pro Asp Lys Val Gln

820 825 830
Gly Val Ser Val Ser Asn Ser Ala Arg Ser Asp Tyr Leu Arg Val Ser
835 840 845
Trp Val His Ala Thr Gly Asp Phe Asp His Tyr Glu Val Thr Ile Lys
850 855 860
Asn Lys Asn Asn Phe Ile Gln Thr Lys Ser Ile Pro Lys Ser Glu Asn
865 870 875 880
Glu Cys Val Phe Val Gln Leu Val Pro Gly Arg Leu Tyr Ser Val Thr
885 890 895
Val Thr Thr Lys Ser Gly Gln Tyr Glu Ala Asn Glu Gln Gly Asn Gly
900 905 910
Arg Thr Ile Pro Glu Pro Val Lys Asp Leu Thr Leu Arg Asn Arg Ser
915 920 925
Thr Glu Asp Leu His Val Thr Trp Ser Gly Ala Asn Gly Asp Val Asp
930 935 940
Gln Tyr Glu Ile Gln Leu Leu Phe Asn Asp Met Lys Val Phe Pro Pro
945 950 955 960
Phe His Leu Val Asn Thr Ala Thr Glu Tyr Arg Phe Thr Ser Leu Thr
965 970 975
Pro Gly Arg Gln Tyr Lys Ile Leu Val Leu Thr Ile Ser Gly Asp Val
980 985 990
Gln Gln Ser Ala Phe Ile Glu Gly Phe Thr Val Pro Ser Ala Val Lys
995 1000 1005
Asn Ile His Ile Ser Pro Asn Gly Ala Thr Asp Ser Leu Thr Val Asn
1010 1015 1020
Trp Thr Pro Gly Gly Gly Asp Val Asp Ser Tyr Thr Val Ser Ala Phe
1025 1030 1035 1040
Arg His Ser Gln Lys Val Asp Ser Gln Thr Ile Pro Lys His Val Phe
1045 1050 1055

Glu His Thr Phe His Arg Leu Glu Ala Gly Glu Gln Tyr Gln Ile Met
1060 1065 1070
Ile Ala Ser Val Ser Gly Ser Leu Lys Asn Gln Ile Asn Val Val Gly
1075 1080 1085
Arg Thr Val Pro Ala Ser Val Gln Gly Val Ile Ala Asp Asn Ala Tyr
1090 1095 1100
Ser Ser Tyr Ser Leu Ile Val Ser Trp Gln Lys Ala Ala Gly Val Ala
1105 1110 1115 1120
Glu Arg Tyr Asp Ile Leu Leu Leu Thr Glu Asn Gly Ile Leu Leu Arg
1125 1130 1135
Asn Thr Ser Glu Pro Ala Thr Thr Lys Gln His Lys Phe Glu Asp Leu
1140 1145 1150
Thr Pro Gly Lys Lys Tyr Lys Ile Gln Ile Leu Thr Val Ser Gly Gly
1155 1160 1165
Leu Phe Ser Lys Glu Ala Gln Thr Glu Gly Arg Thr Val Pro Ala Ala
1170 1175 1180
Val Thr Asp Leu Arg Ile Thr Glu Asn Ser Thr Arg His Leu Ser Phe
1185 1190 1195 1200
Arg Trp Thr Ala Ser Glu Gly Glu Leu Ser Trp Tyr Asn Ile Phe Leu
1205 1210 1215
Tyr Asn Pro Asp Gly Asn Leu Gln Glu Arg Ala Gln Val Asp Pro Leu
1220 1225 1230
Val Gln Ser Phe Ser Phe Gln Asn Leu Leu Gln Gly Arg Met Tyr Lys
1235 1240 1245
Met Val Ile Val Thr His Ser Gly Glu Leu Ser Asn Glu Ser Phe Ile
1250 1255 1260
Phe Gly Arg Thr Val Pro Ala Ser Val Ser His Leu Arg Gly Ser Asn
1265 1270 1275 1280
Arg Asn Thr Thr Asp Ser Leu Trp Phe Asn Trp Ser Pro Ala Ser Gly

1285	1290	1295
Asp Phe Asp Phe Tyr Glu Leu Ile Leu Tyr Asn Pro Asn Gly Thr Lys		
1300	1305	1310
Lys Glu Asn Trp Lys Asp Lys Asp Leu Thr Glu Trp Arg Phe Gln Gly		
1315	1320	1325
Leu Val Pro Gly Arg Lys Tyr Val Leu Trp Val Val Thr His Ser Gly		
1330	1335	1340
Asp Leu Ser Asn Lys Val Thr Ala Glu Ser Arg Thr Ala Pro Ser Pro		
1345	1350	1355
Pro Ser Leu Met Ser Phe Ala Asp Ile Ala Asn Thr Ser Leu Ala Ile		
1365	1370	1375
Thr Trp Lys Gly Pro Pro Asp Trp Thr Asp Tyr Asn Asp Phe Glu Leu		
1380	1385	1390
Gln Trp Leu Pro Arg Asp Ala Leu Thr Val Phe Asn Pro Tyr Asn		
1395	1400	1405

<210> 3753

<211> 185

<212> PRT

<213> Homo sapiens

<400> 3753

Met Ser Thr Ile Ser Gly Thr Arg Ser Thr Thr Val Thr Phe Thr Val		
1	5	10
Arg Pro Gly Thr Ser Gln Pro Ile Thr Leu Gln Ser Arg Pro Pro Asp		
20	25	30
Tyr Glu Ser Arg Thr Ser Gly Thr Arg Arg Ala Pro Ser Pro Val Val		
35	40	45

Ser Pro Thr Glu Met Asn Lys Glu Thr Leu Pro Ala Pro Leu Ser Ala
 50 55 60
 Ala Thr Ala Ser Pro Ser Pro Ala Leu Ser Asp Val Phe Ser Leu Pro
 65 70 75 80
 Ser Gln Pro Pro Ser Gly Asp Leu Phe Gly Leu Asn Pro Ala Gly Arg
 85 90 95
 Ser Arg Ser Pro Ser Pro Ser Ile Leu Gln Gln Pro Ile Ser Asn Lys
 100 105 110
 Pro Phe Thr Thr Lys Pro Val His Leu Trp Thr Lys Pro Asp Val Ala
 115 120 125
 Asp Trp Leu Glu Ser Leu Asn Leu Gly Glu His Lys Glu Ala Phe Met
 130 135 140
 Asp Asn Glu Ile Asp Gly Ser His Leu Pro Asn Leu Gln Lys Glu Asp
 145 150 155 160
 Leu Ile Asp Leu Gly Val Thr Arg Val Gly His Arg Met Asn Ile Glu
 165 170 175
 Arg Ala Leu Lys Gln Leu Leu Asp Arg
 180 185

<210> 3754

<211> 114

<212> PRT

<213> Homo sapiens

<400> 3754

Met Asp Gln Val Ser Phe Pro Ala Val His Glu Gly Thr Asp Ile Arg
 1 5 10 15
 Ser Ser Cys Pro Asn Ser Gly Pro Arg Leu Thr Gln Lys Ser Asn Ser

20 25 30
 Gln Asp Trp Lys Asp Phe Gln Ser Asn Asn Lys Gly Leu Lys Asp Asp
 35 40 45
 Cys Pro Arg Lys Ile Leu Gln Arg Arg Trp Ser Tyr His Leu Arg Ser
 50 55 60
 Lys Cys Ser Ile Ala His Phe Ile Ile Ser Tyr Phe Val Ile Thr Thr
 65 70 75 80
 Gln Trp Val Ser Trp Leu Pro Ala Asn His Ile Lys Ser Asp Asn Leu
 85 90 95
 Gly Phe Thr Ser Leu Thr Asn Val Ser Lys Ala Ser Thr Ser Asp Ile
 100 105 110
 Ala Ile

<210> 3755

<211> 492

<212> PRT

<213> Homo sapiens

<400> 3755

Met Glu Leu Gly Leu Ser Trp Ile Phe Leu Leu Ala Ile Leu Lys Gly
 1 5 10 15
 Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
 20 25 30
 Pro Gly Arg Pro Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
 35 40 45
 Asp Tyr Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 50 55 60

出証特 2 0 0 4 - 3 0 5 9 6 6 1

290	295	300
Ser Gly Lys Ser Ala Val Gln Gly Pro Pro Asp Arg Asp Leu Cys Gly		
305	310	315
Cys Tyr Ser Val Ser Ser Val Leu Pro Gly Cys Ala Glu Pro Trp Asn		
325	330	335
His Gly Lys Thr Phe Thr Cys Thr Ala Ala Tyr Pro Glu Ser Lys Thr		
340	345	350
Pro Leu Thr Ala Thr Leu Ser Lys Ser Gly Asn Thr Phe Arg Pro Glu		
355	360	365
Val His Leu Leu Pro Pro Pro Ser Glu Glu Leu Ala Leu Asn Glu Leu		
370	375	380
Val Thr Leu Thr Cys Leu Ala Arg Gly Phe Ser Pro Lys Asp Val Leu		
385	390	395
Val Arg Trp Leu Gln Gly Ser Gln Glu Leu Pro Arg Glu Lys Tyr Leu		
405	410	415
Thr Trp Ala Ser Arg Gln Glu Pro Ser Gln Gly Thr Thr Thr Phe Ala		
420	425	430
Val Thr Ser Ile Leu Arg Val Ala Ala Glu Asp Trp Lys Lys Gly Asp		
435	440	445
Thr Phe Ser Cys Met Val Gly His Glu Ala Leu Pro Leu Ala Phe Thr		
450	455	460
Gln Lys Thr Ile Asp Arg Leu Ala Gly Lys Pro Thr His Val Asn Val		
465	470	475
Ser Val Val Met Ala Glu Val Asp Gly Thr Cys Tyr		
485	490	

<210> 3756

<211> 112

<212> PRT

<213> Homo sapiens

<400> 3756

Met	Pro	Ala	Arg	Ala	Ala	Val	Ser	Ser	Glu	Gly	Leu	Thr	Ser	Glu	Glu
1				5					10					15	
Ser	Val	Ser	Lys	Leu	Ile	Gln	Phe	Ile	Asn	Lys	Val	Tyr	Phe	Leu	Met
			20					25					30		
Val	Leu	Thr	Glu	Gly	Pro	Ser	Phe	Val	Leu	Ala	Val	Gly	Arg	Val	Tyr
			35				40						45		
Phe	His	Ile	Leu	Arg	Pro	Pro	Ala	Ala	Phe	His	Pro	Tyr	Pro	Ser	Ser
	50					55					60				
Met	Trp	Pro	Leu	Thr	Leu	Cys	Asn	Gln	Gln	Gly	Glu	Pro	Leu	Phe	Ser
65					70					75				80	
Glu	Arg	Pro	Ser	Leu	Pro	Phe	Arg	Val	Phe	His	Leu	Ile	Lys	Ser	Gly
				85						90				95	
Ser	Ser	Lys	Met	Ile	Gln	Leu	Leu	Ile	Asn	Leu	Lys	Leu	Thr	Tyr	Leu
			100						105					110	

<210> 3757

<211> 337

<212> PRT

<213> Homo sapiens

<400> 3757

Met	Lys	His	Leu	Trp	Phe	Phe	Leu	Leu	Val	Val	Ala	Ala	Pro	Arg	Trp
1				5					10					15	
Val	Leu	Ser	Gln	Leu	Gln	Leu	Gln	Glu	Ser	Gly	Ser	Ser	Leu	Val	Lys

20	25	30
Pro Ser Gln Thr Leu Ser Leu Thr Cys Ala Val Ser Gly Gly Ser Ile		
35	40	45
Ser Gly Asn Asp His Ser Trp Asn Trp Ile Arg Gln Pro Phe Gly Lys		
50	55	60
Gly Leu Glu Trp Ile Gly Tyr Met Phe Gln Ser Gly Thr Thr Tyr Tyr		
65	70	75
Asn Pro Ser Leu Lys Ser Arg Val Thr Ile Ser Leu Asp Arg Ser Arg		
85	90	95
Asn Gln Phe Ser Leu Arg Leu Thr Ser Val Thr Ala Ala Asp Thr Ala		
100	105	110
Met Tyr Tyr Cys Ala Arg Gly Tyr Ser Asp Leu Ala Ser Ser Tyr Phe		
115	120	125
His Met Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser Thr		
130	135	140
Pro Thr Lys Ala Pro Asp Val Phe Pro Ile Ile Ser Gly Cys Arg His		
145	150	155
Pro Lys Asp Asn Ser Pro Val Val Leu Ala Cys Leu Ile Thr Gly Tyr		
165	170	175
His Pro Thr Ser Val Thr Val Thr Trp Tyr Met Gly Thr Gln Ser Gln		
180	185	190
Pro Gln Arg Thr Phe Pro Glu Ile Gln Arg Arg Asp Ser Tyr Tyr Met		
195	200	205
Thr Ser Ser Gln Leu Ser Thr Pro Leu Gln Gln Trp Arg Gln Gly Glu		
210	215	220
Tyr Lys Cys Val Val Gln His Thr Ala Ser Lys Ser Lys Lys Glu Val		
225	230	235
Phe Arg Trp Pro Glu Ser Pro Lys Ala Gln Ala Ser Ser Val Pro Thr		
245	250	255

Ala Gln Pro Gln Ala Glu Gly Ser Leu Ala Lys Ala Thr Thr Ala Pro
 260 265 270
 Ala Thr Thr Arg Asn Thr Gly Arg Gly Gly Glu Glu Lys Lys Lys Glu
 275 280 285
 Lys Glu Lys Glu Glu Gln Glu Glu Arg Asp Lys Asp Thr Arg Val Ser
 290 295 300
 Glu Pro His Pro Ala Ser Trp Arg Leu Pro Ala Asn Pro Cys Ser Ala
 305 310 315 320
 Gly Pro Val Ala Pro Gly Gln Ser His Leu His Leu Leu Arg Gly Gly
 325 330 335
 Gln

<210> 3758

<211> 851

<212> PRT

<213> Homo sapiens

<400> 3758

Met Lys Met Val Cys Lys Asp Gln Ala Ser Phe Leu Ser Asp Ser Asn
 1 5 10 15
 Met Phe Ile Asn Leu Pro Arg Val Lys Glu Leu Leu Glu Asp Asp Lys
 20 25 30
 Glu Lys Phe Asn Ile Pro Glu Asp Ser Thr Pro Phe Cys Leu Lys Leu
 35 40 45
 Tyr Gln Glu Ile Leu Gln Leu Pro Asn Gly Ala Leu Val Trp Thr Phe
 50 55 60
 Leu Lys Pro Ile Leu His Gly Lys Ile Leu Tyr Thr Pro Asn Thr Pro

65	70	75	80
Glu Ile Asn Lys Val	Ile Gln Lys Ala Asn Tyr Thr Phe Tyr Ile Val		
	85	90	95
Asp Lys Leu Lys Thr Leu Ser Glu Thr Leu Leu Glu Met Thr Ser Leu			
100	105	110	
Phe Gln Arg Ser Gly Ser Gly Gln Met Phe Asn Gln Leu Gln Glu Ala			
115	120	125	
Leu Arg Asn Lys Phe Val Arg Asn Phe Val Glu Asn Gln Leu His Ile			
130	135	140	
Asp Val Asp Lys Leu Thr Glu Lys Leu Gln Thr Tyr Gly Gly Leu Leu			
145	150	155	160
Asp Glu Met Phe Asn His Ala Gly Ala Gly Arg Phe Arg Phe Leu Gly			
165	170	175	
Ser Ile Leu Val Asn Leu Ser Ser Cys Val Ala Leu Asn Arg Phe Gln			
180	185	190	
Ala Leu Gln Ser Val Asp Ile Leu Glu Thr Lys Ala His Glu Leu Leu			
195	200	205	
Gln Gln Asn Ser Phe Leu Ala Ser Ile Ile Phe Ser Asn Ser Leu Phe			
210	215	220	
Asp Lys Asn Phe Arg Ser Glu Ser Val Lys Leu Pro Pro His Val Ser			
225	230	235	240
Tyr Thr Ile Arg Thr Asn Val Leu Tyr Ser Val Arg Thr Asp Val Val			
245	250	255	
Lys Asn Pro Ser Trp Lys Phe His Pro Gln Asn Leu Pro Ala Asp Gly			
260	265	270	
Phe Lys Tyr Asn Tyr Val Phe Ala Pro Leu Gln Asp Met Ile Glu Arg			
275	280	285	
Ala Ile Ile Leu Val Gln Thr Gly Gln Glu Ala Leu Glu Pro Ala Ala			
290	295	300	

Gln Thr Gln Ala Ala Pro Tyr Pro Cys His Thr Ser Asp Leu Phe Leu
305 310 315 320
Asn Asn Val Gly Phe Phe Phe Pro Leu Ile Met Met Leu Thr Trp Met
325 330 335
Val Ser Val Ala Ser Met Val Arg Lys Leu Val Tyr Glu Gln Glu Ile
340 345 350
Gln Ile Glu Glu Tyr Met Arg Met Met Gly Val His Pro Val Ile His
355 360 365
Phe Leu Ala Trp Phe Leu Glu Asn Met Ala Val Leu Thr Ile Ser Ser
370 375 380
Ala Thr Leu Ala Ile Val Leu Lys Thr Ser Gly Ile Phe Ala His Ser
385 390 395 400
Asn Thr Phe Ile Val Phe Leu Phe Leu Leu Asp Phe Gly Met Ser Val
405 410 415
Val Met Leu Ser Tyr Leu Leu Ser Ala Phe Phe Ser Gln Ala Asn Thr
420 425 430
Ala Ala Leu Cys Thr Ser Leu Val Tyr Met Ile Ser Phe Leu Pro Tyr
435 440 445
Ile Val Leu Leu Val Leu His Asn Gln Leu Ser Phe Val Asn Gln Thr
450 455 460
Phe Leu Cys Leu Leu Ser Thr Thr Ala Phe Gly Gln Gly Val Phe Phe
465 470 475 480
Ile Thr Phe Leu Glu Gly Gln Glu Thr Gly Ile Gln Trp Asn Asn Met
485 490 495
Tyr Gln Ala Leu Glu Gln Gly Gly Met Thr Phe Gly Trp Val Cys Trp
500 505 510
Met Ile Leu Phe Asp Ser Ser Leu Tyr Phe Leu Cys Gly Trp Tyr Leu
515 520 525
Ser Asn Leu Ile Pro Gly Thr Phe Gly Leu Arg Lys Pro Trp Tyr Phe

530 535 540
Pro Phe Thr Ala Ser Tyr Trp Lys Ser Val Gly Phe Leu Val Glu Lys
545 550 555 560
Arg Gln Tyr Phe Leu Ser Ser Ser Leu Phe Phe Phe Asn Glu Asn Phe
 565 570 575
Asp Asn Lys Gly Ser Ser Leu Gln Asn Arg Glu Gly Glu Leu Glu Gly
 580 585 590
Ser Ala Pro Gly Val Thr Leu Val Ser Val Thr Lys Glu Tyr Glu Gly
 595 600 605
His Lys Ala Val Val Gln Asp Leu Ser Leu Thr Phe Tyr Arg Asp Gln
 610 615 620
Ile Thr Ala Leu Leu Gly Thr Asn Gly Ala Gly Lys Thr Thr Ile Ile
625 630 635 640
Ser Met Leu Thr Gly Leu His Pro Pro Thr Ser Gly Thr Ile Ile Ile
 645 650 655
Asn Gly Lys Asn Leu Gln Thr Asp Leu Ser Arg Val Arg Met Glu Leu
 660 665 670
Gly Val Cys Pro Gln Gln Asp Ile Leu Leu Asp Asn Leu Thr Val Arg
 675 680 685
Glu His Leu Leu Leu Phe Ala Ser Ile Lys Ala Pro Gln Trp Thr Lys
 690 695 700
Lys Glu Leu His Gln Gln Val Asn Gln Thr Leu Gln Asp Val Asp Leu
705 710 715 720
Thr Gln His Gln His Lys Gln Thr Arg Ala Leu Ser Gly Gly Leu Lys
 725 730 735
Arg Lys Leu Ser Leu Gly Ile Ala Phe Met Gly Met Ser Arg Thr Val
 740 745 750
Val Leu Asp Glu Pro Thr Ser Gly Val Asp Pro Cys Ser Arg His Ser
 755 760 765

Leu Trp Asp Ile Leu Leu Lys Tyr Arg Glu Gly Arg His Trp Ala Ser
 770 775 780

Phe Cys Leu Leu Phe Pro Gln Tyr Cys Val Ala Gly Asn Ala Leu Leu
 785 790 795 800

Leu Tyr Ser Arg Ile Lys Leu Tyr Pro Ser Glu Ala Thr Leu Ser Phe
 805 810 815

Ser Glu Lys Tyr Lys Phe Leu Lys Ala Leu Ile Gly Ile Tyr Ser Leu
 820 825 830

Asp Asn Ile Ser Ile Val Leu Arg Ile Ala Tyr Phe Val Phe Asp Leu
 835 840 845

Leu Thr Gln
 850

<210> 3759

<211> 408

<212> PRT

<213> Homo sapiens

<400> 3759

Met Trp Ala Phe Ser Glu Leu Pro Met Pro Leu Leu Ile Asn Leu Ile
 1 5 10 15

Val Ser Leu Leu Gly Phe Val Ala Thr Val Thr Leu Ile Pro Ala Phe
 20 25 30

Arg Gly His Phe Ile Ala Ala Arg Leu Cys Gly Gln Asp Leu Asn Lys
 35 40 45

Thr Ser Arg Gln Gln Ile Pro Glu Ser Gln Gly Val Ile Ser Gly Ala
 50 55 60

Val Phe Leu Ile Ile Leu Phe Cys Phe Ile Pro Phe Pro Phe Leu Asn

65	70	75	80
Cys Phe Val Lys Glu Gln Cys Lys Ala Phe Pro His His Glu Phe Val			
85	90	95	
Ala Leu Ile Gly Ala Leu Leu Ala Ile Cys Cys Met Ile Phe Leu Gly			
100	105	110	
Phe Ala Asp Asp Val Leu Asn Leu Arg Trp Arg His Lys Leu Leu Leu			
115	120	125	
Pro Thr Ala Ala Ser Leu Pro Leu Leu Met Val Tyr Phe Thr Asn Phe			
130	135	140	
Gly Asn Thr Thr Ile Val Val Pro Lys Pro Phe Arg Pro Ile Leu Gly			
145	150	155	160
Leu His Leu Asp Leu Gly Ile Leu Tyr Tyr Val Tyr Met Gly Leu Leu			
165	170	175	
Ala Val Phe Cys Thr Asn Ala Ile Asn Ile Leu Ala Gly Ile Asn Gly			
180	185	190	
Leu Glu Ala Gly Gln Ser Leu Val Ile Ser Ala Ser Ile Ile Val Phe			
195	200	205	
Asn Leu Val Glu Leu Glu Gly Asp Cys Arg Asp Asp His Val Phe Ser			
210	215	220	
Leu Tyr Phe Met Ile Pro Phe Phe Phe Thr Thr Leu Gly Leu Leu Tyr			
225	230	235	240
His Asn Trp Tyr Pro Ser Arg Val Phe Val Gly Asp Thr Phe Cys Tyr			
245	250	255	
Phe Ala Gly Met Thr Phe Ala Val Val Gly Ile Leu Gly His Phe Ser			
260	265	270	
Lys Thr Met Leu Leu Phe Phe Met Pro Gln Val Phe Asn Phe Leu Tyr			
275	280	285	
Ser Leu Pro Gln Leu Leu His Ile Ile Pro Cys Pro Arg His Arg Ile			
290	295	300	

50 55 60
Gln Asn Pro Val Ser Gln Arg Ser Ser Leu Pro Val His Val Gly Gln
65 70 75 80
Phe Cys Thr Asp Pro Gly Ala Ser Arg Gly Gly Thr Thr Gly Glu Thr
85 90 95
Val Val Gly Val Leu Gly Glu Pro Val Thr Leu Pro Leu Ala Leu Pro
100 105 110
Ala Cys Arg Asp Thr Glu Lys Val Val Trp Leu Phe Asn Thr Ser Ile
115 120 125
Ile Ser Lys Glu Arg Glu Glu Ala Ala Thr Ala Asp Pro Leu Ile Lys
130 135 140
Ser Arg Asp Pro Tyr Lys Asn Arg Val Trp Val Ser Ser Gln Asp Cys
145 150 155 160
Ser Leu Lys Ile Ser Gln Leu Lys Ile Glu Asp Ala Gly Pro Tyr His
165 170 175
Ala Tyr Val Cys Ser Glu Ala Ser Ser Val Thr Ser Met Thr His Val
180 185 190
Thr Leu Leu Ile Tyr Arg Glu Ser Leu Gly Arg Ala Pro Ile Thr Arg
195 200 205
Phe Leu Leu
210

<210> 3761

<211> 174

<212> PRT

<213> Homo sapiens

<400> 3761

Met Thr Gly Ala Cys His His Ala Gln Leu Ile Phe Val Phe Leu Val
1 5 10 15
Glu Met Glu Phe Cys His Val Gly Gln Ala Gly Leu Lys Leu Ile Arg
20 25 30
Pro Pro Trp Leu Gly Leu Gln Gly Arg Ala Thr Ala Pro Ser Leu Phe
35 40 45
Phe Val Phe Leu Val Glu Met Gly Phe Cys His Val Gly Gln Ala Gly
50 55 60
Pro Glu His Leu Ala Ser Gly Asp Leu Pro Ala Ser Ala Ser Gln Ser
65 70 75 80
Ala Gly Ile Thr Gly Thr Ser His His Ala Trp Leu Gly Pro Ser Phe
85 90 95
Cys Leu Glu Ala Leu Gly Cys Ser Pro Leu Thr Ser Ser Leu Lys Ser
100 105 110
His Thr Thr Thr Phe Ser Phe Gly Val Ser Leu Ser Pro Met Pro Gly
115 120 125
Trp Gly Ile Lys Thr Tyr Gly Ile Phe Ser Thr Ala Pro Cys Phe Ser
130 135 140
Phe Leu Ser Arg Asn Arg Pro Thr Ala Ala Leu Leu Glu Asn Ser Glu
145 150 155 160
Asp Ser His Asp Phe Phe Trp Phe Phe Phe Phe Phe Phe
165 170

<210> 3762

<211> 308

<212> PRT

<213> Homo sapiens

<400> 3762

Met His Ser Val Ala His Pro His Pro Gly Val Pro Pro Trp Val Pro
 1 5 10 15
 Ala Thr Leu Ile Ile Thr Gly Lys Arg Arg Gly Ala Ala Ala Gly Gly
 20 25 30
 Ala Gly Leu Glu His Gly Gly Ser Gly Arg Ala His Leu Arg Glu Val
 35 40 45
 Ser Ala Glu Thr Trp Arg Thr Arg Gly Val Gly Ala Gly Arg Leu Val
 50 55 60
 Thr Gly Pro Ala Leu Ala Ser Gly Pro Pro Cys Ser Gln Leu Tyr Asn
 65 70 75 80
 Gly Gln Gly Ser Pro Arg Thr Ile Ser Trp Gly Leu Gly His Thr Arg
 85 90 95
 Val Gly Val Ala Ser Leu Leu Met Leu Glu Ser Leu Ser Gly Leu Ala
 100 105 110
 Leu Trp Phe Ser Pro Pro Pro Ala Ala Ser Arg Pro Pro Gly Pro Gly
 115 120 125
 Leu Ser Leu Tyr Thr Asp Gly Ser Lys Ala Trp Gly Gly Arg His Arg
 130 135 140
 Ser Thr Gly Gly Ala His Ala Ser Leu Thr His Ser Gln Val Ser Pro
 145 150 155 160
 Pro Gly Ser Gly Asn Leu Thr Gln His Gly His Val Cys Pro Cys Val
 165 170 175
 Thr Met Pro Ala Leu Lys Thr Thr Pro Pro Phe Leu Ser Pro His Arg
 180 185 190
 Gly Leu Asp Ala Ala Ser Trp Ala Gln Ile His Gln Lys Leu Arg Asp
 195 200 205
 Phe Ser Arg Ser Thr Gln Val Gly Gly Lys Gly Trp Pro Arg Pro Ile
 210 215 220

出証特 2 0 0 4 - 3 0 5 9 6 6 1

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Val Val Ala Ala Val Ser Met Trp Asp Val Cys Met Glu Arg Gly His			
305	310	315	320
Arg Asp Leu Glu Gln Phe Glu Arg Val His Arg Tyr Ile Ser Asp Gln			
	325	330	335
Leu Phe Thr Asn Phe Lys Glu Arg Thr Glu Arg Leu Val Ile Ser Pro			
	340	345	350
Leu Asn Gln Leu Leu Ser Met Phe Thr Gly Pro His Lys Leu Val Gln			
	355	360	365
Lys Arg Phe Asp Lys Leu Leu Asp Phe Tyr Asn Cys Thr Glu Arg Ala			
	370	375	380
Glu Lys Leu Lys Asp Lys Lys Thr Leu Glu Glu Leu Gln Ser Ala Arg			
385	390	395	400
Asn Asn Tyr Glu Ala Leu Asn Ala Gln Leu Leu Asp Glu Leu Pro Lys			
	405	410	415
Phe His Gln Tyr Ala Gln Gly Leu Phe Thr Asn Cys Val His Gly Tyr			
	420	425	430
Ala Glu Ala His Cys Asp Phe Val His Gln Ala Leu Glu Gln Leu Lys			
	435	440	445
Pro Leu Leu Ser Leu Leu Lys Val Ala Gly Arg Glu Gly Asn Leu Ile			
	450	455	460
Ala Ile Phe His Glu Glu His Ser Arg Val Leu Gln Gln Leu Gln Val			
465	470	475	480
Phe Thr Phe Phe Pro Glu Ser Leu Pro Ala Thr Lys Lys Pro Phe Glu			
	485	490	495
Arg Lys Thr Ile Asp Arg Gln Ser Ala Arg Lys Pro Leu Leu Gly Leu			
	500	505	510
Pro Ser Tyr Met Leu Gln Ser Glu Glu Leu Arg Ala Ser Leu Leu Ala			
	515	520	525
Arg Tyr Pro Pro Glu Lys Leu Phe Gln Ala Glu Arg Asn Phe Asn Ala			

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Thr Phe Lys Ala Arg Asn Pro Asn Glu Leu Ser Val Ser Ala Asn Gln
 770 775 780
 Lys Leu Lys Ile Leu Glu Phe Lys Asp Val Thr Gly Asn Thr Glu Trp
 785 790 795 800
 Trp Leu Ala Glu Val Asn Gly Lys Lys Gly Tyr Val Pro Ser Asn Tyr
 805 810 815
 Ile Arg Lys Thr Glu Tyr Thr
 820

<210> 3764

<211> 1079

<212> PRT

<213> Homo sapiens

<400> 3764

Met Asn His Met Phe His Ile Lys Arg His Ser Ile Ser Ala Gly Thr
 1 5 10 15
 Asp Ala Tyr Lys Lys Thr Lys Pro Ile Gln Asn Leu Phe Gln Lys Pro
 20 25 30
 Leu Tyr Asp His Cys Ser Ala Asn Asn Tyr Lys Ser Met Glu Pro Glu
 35 40 45
 Leu Glu Asn Val Arg Ser Ser Pro Pro Arg Gly Asp Arg Thr Ser Lys
 50 55 60
 Val Ser Leu Lys Glu Glu Leu Gln Gln Asp Met Gln Arg Phe Lys Asn
 65 70 75 80
 Glu Ile Gly Met Leu Lys Val Glu Phe Gln Ala Leu Glu Lys Glu Lys
 85 90 95
 Val Gln Leu Gln Lys Glu Val Glu Glu Glu Arg Lys Lys His Arg Asn

100 105 110
Asn Glu Met Glu Val Ser Ala Asn Ile His Asp Gly Ala Thr Asp Asp
115 120 125
Ala Glu Asp Asp Asp Asp Asp Asp Gly Leu Ile Gln Lys Arg Lys Ser
130 135 140
Gly Glu Thr Asp His Gln Gln Phe Pro Arg Lys Glu Asn Lys Glu Tyr
145 150 155 160
Ala Ser Ser Gly Pro Ala Leu Gln Met Lys Glu Val Lys Ser Thr Glu
165 170 175
Lys Glu Lys Arg Thr Ser Lys Glu Ser Val Asn Ser Pro Val Phe Gly
180 185 190
Lys Ala Ser Leu Leu Thr Gly Gly Leu Leu Gln Val Asp Asp Asp Ser
195 200 205
Ser Leu Ser Glu Ile Asp Glu Asp Glu Gly Arg Pro Thr Lys Lys Thr
210 215 220
Ser Asn Glu Lys Asn Lys Val Lys Asn Gln Ile Gln Ser Met Asp Asp
225 230 235 240
Val Asp Asp Leu Thr Gln Ser Ser Glu Thr Ala Ser Glu Asp Cys Glu
245 250 255
Leu Pro His Ser Ser Tyr Lys Asn Phe Met Leu Leu Ile Glu Gln Leu
260 265 270
Gly Met Glu Cys Lys Asp Ser Val Ser Leu Leu Lys Ile Gln Asp Ala
275 280 285
Ala Leu Ser Cys Glu Arg Leu Leu Glu Leu Lys Lys Asn His Cys Glu
290 295 300
Leu Leu Thr Val Lys Ile Lys Lys Met Glu Asp Lys Val Asn Val Leu
305 310 315 320
Gln Arg Glu Leu Ser Glu Thr Lys Glu Ile Lys Ser Gln Leu Glu His
325 330 335

Gln Lys Val Glu Trp Glu Arg Glu Leu Cys Ser Leu Arg Phe Ser Leu
340 345 350
Asn Gln Glu Glu Glu Lys Arg Arg Asn Ala Asp Thr Leu Tyr Glu Lys
355 360 365
Ile Arg Glu Gln Leu Arg Arg Lys Glu Glu Gln Tyr Arg Lys Glu Val
370 375 380
Glu Val Lys Gln Gln Leu Glu Leu Ser Leu Gln Thr Leu Glu Met Glu
385 390 395 400
Leu Arg Thr Val Lys Ser Asn Leu Asn Gln Val Val Gln Glu Arg Asn
405 410 415
Asp Ala Gln Arg Gln Leu Ser Arg Glu Gln Asn Ala Arg Met Leu Gln
420 425 430
Asp Gly Ile Leu Thr Asn His Leu Ser Lys Gln Lys Glu Ile Glu Met
435 440 445
Ala Gln Lys Lys Met Asn Ser Glu Asn Ser His Ser His Glu Glu Glu
450 455 460
Lys Asp Leu Ser His Lys Asn Ser Met Leu Gln Glu Glu Ile Ala Met
465 470 475 480
Leu Arg Leu Glu Ile Asp Thr Ile Lys Asn Gln Asn Gln Glu Lys Glu
485 490 495
Lys Lys Cys Phe Glu Asp Leu Lys Ile Val Lys Glu Lys Asn Glu Asp
500 505 510
Leu Gln Lys Thr Ile Lys Gln Asn Glu Glu Thr Leu Thr Gln Thr Ile
515 520 525
Ser Gln Tyr Asn Gly Arg Leu Ser Val Leu Thr Ala Glu Asn Ala Met
530 535 540
Leu Asn Ser Lys Leu Glu Asn Glu Lys Gln Ser Lys Glu Arg Leu Glu
545 550 555 560
Ala Glu Val Glu Ser Tyr His Ser Arg Leu Ala Ala Ala Ile His Asp

565	570	575
Arg Asp Gln Ser Glu Thr Ser Lys Arg Glu Leu Glu Leu Ala Phe Gln		
580	585	590
Arg Ala Arg Asp Glu Cys Ser Arg Leu Gln Asp Lys Met Asn Phe Asp		
595	600	605
Val Ser Asn Leu Lys Asp Asn Asn Glu Ile Leu Ser Gln Gln Leu Phe		
610	615	620
Lys Thr Glu Ser Lys Leu Asn Ser Leu Glu Ile Glu Phe His His Thr		
625	630	635
640		
Arg Asp Ala Leu Arg Glu Lys Thr Leu Gly Leu Glu Arg Val Gln Lys		
645	650	655
Asp Leu Ser Gln Thr Gln Cys Gln Met Lys Glu Met Glu Gln Lys Tyr		
660	665	670
Gln Asn Glu Gln Val Lys Val Asn Lys Tyr Ile Gly Lys Gln Glu Ser		
675	680	685
Val Glu Glu Arg Leu Ser Gln Leu Gln Ser Glu Asn Met Leu Leu Arg		
690	695	700
Gln Gln Leu Asp Asp Ala His Asn Lys Ala Asp Asn Lys Glu Lys Thr		
705	710	715
720		
Val Ile Asn Ile Gln Asp Gln Phe His Ala Ile Val Gln Lys Leu Gln		
725	730	735
Ala Glu Ser Glu Lys Gln Ser Leu Leu Leu Glu Glu Arg Asn Lys Glu		
740	745	750
Leu Ile Ser Glu Cys Asn His Leu Lys Glu Arg Gln Tyr Gln Tyr Glu		
755	760	765
Asn Glu Lys Ala Glu Arg Glu Val Val Val Arg Gln Leu Gln Gln Glu		
770	775	780
Leu Ala Asp Thr Leu Lys Lys Gln Ser Met Ser Glu Ala Ser Leu Glu		
785	790	795
800		

Val Thr Ser Arg Tyr Arg Ile Asn Leu Glu Asp Glu Thr Gln Asp Leu
 805 810 815
 Lys Lys Lys Leu Gly Gln Ile Arg Asn Gln Leu Gln Glu Ala Gln Asp
 820 825 830
 Arg His Thr Glu Ala Val Arg Cys Ala Glu Lys Met Gln Asp His Lys
 835 840 845
 Gln Lys Leu Glu Lys Asp Asn Ala Lys Leu Lys Val Thr Ile Lys Lys
 850 855 860
 Gln Met Asp Lys Ile Glu Glu Leu Gln Lys Asn Leu Leu Asn Ala Asn
 865 870 875 880
 Leu Ser Glu Asp Glu Lys Glu Gln Leu Lys Lys Leu Met Glu Leu Lys
 885 890 895
 Gln Ser Leu Glu Cys Asn Leu Gly Gln Glu Met Lys Lys Asn Val Glu
 900 905 910
 Leu Glu Arg Glu Ile Thr Gly Phe Lys Asn Leu Leu Lys Met Thr Arg
 915 920 925
 Lys Lys Leu Asn Glu Tyr Glu Asn Gly Glu Phe Ser Phe His Gly Asp
 930 935 940
 Leu Lys Thr Ser Gln Phe Glu Met Asp Ile Gln Ile Asn Lys Leu Lys
 945 950 955 960
 His Lys Ile Asp Asp Leu Thr Ala Glu Leu Glu Thr Ala Gly Ser Lys
 965 970 975
 Cys Leu His Leu Asp Thr Lys Asn Gln Ile Leu Gln Glu Glu Leu Leu
 980 985 990
 Ser Met Lys Thr Val Gln Lys Lys Cys Glu Lys Leu Gln Lys Asn Lys
 995 1000 1005
 Lys Lys Leu Glu Gln Glu Val Ile Asn Leu Arg Ser His Ile Glu Arg
 1010 1015 1020
 Asn Met Val Glu Leu Gly Gln Val Lys Gln Tyr Lys Gln Glu Ile Glu

1025 1030 1035 1040
 Glu Arg Ala Arg Gln Glu Ile Ala Glu Lys Leu Lys Glu Val Asn Leu
 1045 1050 1055
 Phe Leu Gln Ala Gln Ala Ala Ser Gln Glu Asn Leu Glu Gln Leu Arg
 1060 1065 1070
 Glu Lys Gln Asp Leu Pro Asp
 1075

<210> 3765

<211> 577

<212> PRT

<213> Homo sapiens

<400> 3765

Met Lys His Leu Trp Phe Phe Phe Leu Leu Val Ala Ala Pro Arg Trp
 1 5 10 15
 Val Leu Ser Gln Val Gln Leu Gln Gly Ser Gly Pro Arg Leu Val Lys
 20 25 30
 Pro Ser Glu Thr Val Ser Leu Thr Cys Gly Val Ser Asp Asp Ser Ile
 35 40 45
 Ser Arg Gly Tyr Tyr Tyr Trp Ser Trp Ile Arg Gln Pro Ala Gly Lys
 50 55 60
 Gly Leu Glu Trp Ile Gly Arg Val Ala Ile Thr Gly Thr Thr Phe Tyr
 65 70 75 80
 Asn Pro Ser Phe Lys Gly Arg Val Thr Ile Ser Lys Ala Ser Phe Arg
 85 90 95
 Lys Glu Ile Ser Leu Glu Leu Asn Ser Leu Thr Ala Ala Asp Thr Ala
 100 105 110

Thr Tyr Phe Cys Ala Arg Glu Met Gly Pro Arg Gln Trp Gly Phe Ser
 115 120 125
 Ser Asn Asp Ala Phe Glu Ile Trp Asp His Gly Ile Leu Val Ile Val
 130 135 140
 Ser Pro Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys
 145 150 155 160
 Ser Arg Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys
 165 170 175
 Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu
 180 185 190
 Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu
 195 200 205
 Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr
 210 215 220
 Gln Thr Tyr Thr Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val
 225 230 235 240
 Asp Lys Arg Val Glu Leu Lys Thr Pro Leu Gly Asp Thr Thr His Thr
 245 250 255
 Cys Pro Arg Cys Pro Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys
 260 265 270
 Pro Arg Cys Pro Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro
 275 280 285
 Arg Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe
 290 295 300
 Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val
 305 310 315 320
 Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Gln Phe
 325 330 335
 Lys Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro

340	345	350
Arg Glu Glu Gln Phe Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr		
355	360	365
Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val		
370	375	380
Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr		
385	390	395
Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg		
405	410	415
Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly		
420	425	430
Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Ser Gly Gln Pro		
435	440	445
Glu Asn Asn Tyr Asn Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser		
450	455	460
Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln		
465	470	475
Gly Asn Ile Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn Arg		
485	490	495
Phe Thr Gln Lys Ser Leu Ser Leu Ser Pro Glu Leu Gln Leu Glu Glu		
500	505	510
Ser Cys Ala Glu Ala Gln Asp Gly Glu Leu Asp Gly Leu Trp Thr Thr		
515	520	525
Ile Thr Ile Phe Ile Thr Leu Phe Leu Leu Ser Val Cys Tyr Ser Ala		
530	535	540
Thr Val Thr Phe Phe Lys Val Lys Trp Ile Phe Ser Ser Val Val Asp		
545	550	555
Leu Lys Gln Thr Ile Ile Pro Asp Tyr Arg Asn Met Ile Gly Gln Gly		
565	570	575

Ala

<210> 3766

<211> 526

<212> PRT

<213> Homo sapiens

<400> 3766

Met Arg His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp

1 5 10 15

Val Leu Ser Gln Val Gln Leu Gln Glu Ser Gly Pro Ala Leu Val Met

20 25 30

Pro Ser Gln Thr Leu Ser Leu Thr Cys Ser Val Ser Ala Gly Ser Ile

35 40 45

Ser Ser Gly Asp Tyr Tyr Trp Thr Trp Ile Arg Gln Leu Pro Glu Glu

50 55 60

Gly Leu Lys Trp Leu Gly Tyr Ile Ser Ser Ser Gly Thr Thr Tyr Tyr

65 70 75 80

Asn Pro Ser Leu Lys Ser Arg Leu Thr Leu Ser Met Glu Thr Ser Thr

85 90 95

Asn Arg Phe Ser Leu Arg Leu Thr Ser Met Thr Ala Ala Asp Thr Ala

100 105 110

Val Tyr Tyr Cys Ala Arg Gly Leu Arg Ser Gly Tyr Phe Asp Leu Trp

115 120 125

Gly Arg Gly Asn Val Val Thr Val Ser Ser Thr Pro Thr Lys Ala Pro

130 135 140

Asp Val Phe Pro Ile Ile Ser Gly Cys Arg His Pro Lys Asp Asn Ser

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Val Thr Cys Thr Leu Asn His Pro Ser Leu Pro Pro Gln Arg Leu Met
 385 390 395 400
 Ala Leu Arg Glu Pro Ala Ala Gln Ala Pro Val Lys Leu Ser Leu Asn
 405 410 415
 Leu Leu Ala Ser Ser Asp Pro Pro Glu Ala Ala Ser Trp Leu Leu Cys
 420 425 430
 Glu Val Ser Gly Phe Ser Pro Pro Asn Ile Leu Leu Met Trp Leu Glu
 435 440 445
 Asp Gln Arg Glu Val Asn Thr Ser Gly Phe Ala Pro Ala Arg Pro Pro
 450 455 460
 Pro Gln Pro Arg Ser Thr Thr Phe Trp Ala Trp Ser Val Leu Arg Val
 465 470 475 480
 Pro Ala Pro Pro Ser Pro Gln Pro Ala Thr Tyr Thr Cys Val Val Ser
 485 490 495
 His Glu Asp Ser Arg Thr Leu Leu Asn Ala Ser Arg Ser Leu Glu Val
 500 505 510
 Ser Cys Glu Ser Pro Pro Gly Pro Gly Leu Gly Arg Gly Leu
 515 520 525

<210> 3767

<211> 737

<212> PRT

<213> Homo sapiens

<400> 3767

Met Leu Asp Lys Phe Ser Trp Ser Glu Leu Cys Ala Val Leu Gln Glu
 1 5 10 15
 Asn Val Asp Ala Leu Ile Ala Asp Leu Asn Arg Ala Asn Glu Lys Ile

20	25	30
Arg His Leu Glu Tyr Ile Cys Lys Asn Lys Ser Asp Thr Met Arg Glu		
35	40	45
Leu Gln Gln Thr Gln Glu Asp Thr Phe Thr Lys Val Ala Glu Gln Ile		
50	55	60
Lys Ala Gln Glu Ser Cys Trp His Arg Gln Lys Lys Glu Leu Glu Leu		
65	70	75
Gln Tyr Ser Glu Leu Phe Leu Glu Val Gln Lys Arg Ala Gln Lys Phe		
85	90	95
Gln Glu Ile Ala Glu Lys Asn Met Glu Lys Leu Asn His Ile Glu Lys		
100	105	110
Ser His Glu Gln Leu Val Leu Glu Asn Ser His Phe Lys Lys Leu Leu		
115	120	125
Ser Gln Thr Gln Arg Glu Gln Met Ser Leu Leu Ala Ala Cys Ala Leu		
130	135	140
Met Ala Gly Ala Leu Tyr Pro Leu Tyr Ser Arg Ser Cys Ala Leu Ser		
145	150	155
Thr Gln Arg Asp Phe Leu Gln Glu Gln Val Asn Thr Phe Glu Leu Phe		
165	170	175
Lys Leu Glu Ile Arg Thr Leu Ala Gln Ala Leu Ser Thr Val Glu Glu		
180	185	190
Lys Lys Gln Glu Glu Ala Lys Met Lys Lys Lys Thr Phe Lys Gly Leu		
195	200	205
Ile Arg Ile Phe Arg Lys Gly Val Ile Ala Val Leu Ala Ala Asn Arg		
210	215	220
Leu Lys Ile Leu Gly Gln Ser Cys Ala Ser Leu Phe Thr Trp Met Glu		
225	230	235
Ser Phe Lys Glu Gly Ile Gly Met Leu Val Cys Thr Gly Glu Pro Gln		
245	250	255

Asp Lys His Lys Phe Pro Lys His Gln Lys Glu Gln Leu Arg Cys Leu
 260 265 270
 Gln Ala Leu Ser Trp Leu Thr Ser Ser Asp Leu Leu Ala Ala Ile Ile
 275 280 285
 Ser Ser Met Ala Glu Leu Gln Asp Val Ile Gly Lys Ala Asp Pro Asn
 290 295 300
 Ser Arg Ile Cys Gly His Leu Leu Ile Gly Ala Ala Lys Asn Ser Phe
 305 310 315 320
 Ala Lys Leu Met Asp Lys Ile Ser Leu Val Met Glu Cys Ile Pro Leu
 325 330 335
 His Ser Ser Arg Ser Ile Thr Tyr Val Glu Lys Asp Ser Leu Val Gln
 340 345 350
 Arg Leu Ala His Gly Leu His Lys Val Asn Thr Leu Ala Leu Lys Tyr
 355 360 365
 Gly Leu Arg Gly His Val Pro Ile Thr Lys Ser Thr Ala Ser Leu Gln
 370 375 380
 Lys Gln Ile Leu Gly Phe Thr Gln Arg Leu His Ala Ala Glu Val Glu
 385 390 395 400
 Arg Arg Ser Leu Arg Leu Glu Val Thr Glu Phe Lys Arg Ser Val Asn
 405 410 415
 Glu Met Lys Lys Glu Leu Asp Lys Ala Gln Gly Leu Gln Met Gln Leu
 420 425 430
 Asn Glu Phe Lys Gln Ser Lys Leu Ile Thr His Glu Lys Phe Glu Ser
 435 440 445
 Ala Cys Glu Glu Leu Asn Asn Ala Leu Leu Arg Glu Glu Gln Ala Gln
 450 455 460
 Met Leu Leu Asn Glu Gln Ala Gln Gln Leu Gln Glu Leu Asn Tyr Arg
 465 470 475 480
 Leu Glu Leu His Ser Ser Glu Glu Ala Asp Lys Asn Gln Thr Leu Gly

485	490	495
Glu Ala Val Lys Ser Leu Ser Glu Ala Lys Met Glu Leu Arg Arg Lys		
500	505	510
Asp Gln Ser Leu Arg Gln Leu Asn Arg His Leu Thr Gln Leu Glu Gln		
515	520	525
Asp Lys Arg Arg Leu Glu Glu Asn Ile His Asp Ala Glu Ser Ala Leu		
530	535	540
Arg Met Ala Ala Lys Asp Lys Glu Cys Val Ala Asn His Met Arg Ala		
545	550	555
Val Glu Asn Thr Leu His Lys Val Arg Asp Gln Ile Ser Leu Ser Trp		
565	570	575
Ser Ala Ala Ser Arg Asn Asp Phe Thr Leu Gln Leu Pro Lys Leu His		
580	585	590
Leu Glu Thr Phe Ala Met Glu Gly Leu Lys Gly Gly Pro Glu Val Val		
595	600	605
Ala Cys Gln Ala Met Ile Lys Ser Phe Met Asp Val Tyr Gln Leu Ala		
610	615	620
Ser Thr Arg Ile Met Thr Leu Glu Lys Glu Met Thr Ser His Arg Ser		
625	630	635
His Ile Ala Ala Leu Lys Ser Glu Leu His Thr Ala Cys Leu Arg Glu		
645	650	655
Asn Ala Ser Leu Gln Ser Ile Gly Ser Arg Asp His Ser Asn Leu Ser		
660	665	670
Ile Pro Ser Arg Ala Pro Leu Pro Ala Asp Thr Thr Gly Ile Gly Asp		
675	680	685
Phe Leu Pro Leu Lys Ala Glu Leu Asp Thr Thr Tyr Thr Phe Leu Lys		
690	695	700
Glu Thr Phe Ile Asn Thr Val Pro His Ala Leu Thr Ser Ser His Ser		
705	710	715
		720

Ser Pro Val Thr Met Ser Ala Asn Ala Asn Arg Pro Thr Gln Ile Gly

725

730

735

Leu

<210> 3768

<211> 1020

<212> PRT

<213> Homo sapiens

<400> 3768

Met Trp Cys Thr Val Ser Trp Thr Cys Leu Gln Thr Ile Arg Phe Ser

1

5

10

15

Pro Asp Ile Phe Ser Ser Val Ser Val Pro Pro Ser Leu Lys Val Cys

20

25

30

Leu Asp Leu Ser Ala Glu Tyr Leu Ile Leu Ser Asp Val Gln Arg Lys

35

40

45

Val Leu Tyr Val Met Glu Leu Leu Gln Asn Gln Glu Glu Gly His Ala

50

55

60

Cys Phe Ser Ser Ile Ser Glu Phe Leu Leu Thr His Pro Val Leu Ser

65

70

75

80

Phe Gly Ile Gln Val Val Ser Arg Cys Arg Leu Arg His Thr Glu Val

85

90

95

Leu Pro Ala Glu Glu Glu Asn Asp Ser Leu Gly Ala Asp Gly Thr His

100

105

110

Gly Ala Gly Ala Met Glu Ser Ala Ala Gly Val Leu Ile Lys Leu Phe

115

120

125

Cys Val His Thr Lys Ala Leu Gln Asp Val Gln Ile Arg Phe Gln Pro

130 135 140
Gln Leu Asn Pro Asp Val Val Ala Pro Leu Pro Thr His Thr Ala His
145 150 155 160
Glu Asp Phe Thr Phe Gly Glu Ser Arg Pro Glu Leu Gly Ser Glu Gly
165 170 175
Leu Gly Ser Ala Ala His Gly Ser Gln Pro Asp Leu Arg Arg Ile Val
180 185 190
Glu Leu Pro Ala Pro Ala Asp Phe Leu Ser Leu Ser Ser Glu Thr Lys
195 200 205
Pro Lys Leu Met Thr Pro Asp Ala Phe Met Thr Pro Ser Ala Ser Leu
210 215 220
Gln Gln Ile Thr Ala Ser Pro Ser Ser Ser Ser Ser Gly Ser Ser Ser
225 230 235 240
Ser Ser Ser Ser Ser Ser Ser Ser Leu Thr Ala Val Ser Ala Met Ser
245 250 255
Ser Thr Ser Ala Val Asp Pro Ser Leu Thr Arg Pro Pro Glu Glu Leu
260 265 270
Thr Leu Ser Pro Lys Leu Gln Leu Asp Gly Ser Leu Thr Met Ser Ser
275 280 285
Ser Gly Ser Leu Gln Ala Ser Pro Arg Gly Leu Leu Pro Gly Leu Leu
290 295 300
Pro Ala Pro Ala Asp Lys Leu Thr Pro Lys Gly Pro Gly Gln Val Pro
305 310 315 320
Thr Ala Thr Ser Ala Leu Ser Leu Glu Leu Gln Glu Val Glu Pro Leu
325 330 335
Gly Leu Pro Gln Ala Ser Pro Ser Arg Thr Arg Ser Pro Asp Val Ile
340 345 350
Ser Ser Ala Ser Thr Ala Leu Ser Gln Asp Ile Pro Glu Ile Ala Ser
355 360 365

Glu Ala Leu Ser Arg Gly Phe Gly Ser Ser Ala Pro Glu Gly Leu Glu
 370 375 380
 Pro Asp Ser Met Ala Ser Ala Ala Ser Ala Leu His Leu Leu Ser Pro
 385 390 395 400
 Arg Pro Arg Pro Gly Pro Glu Leu Gly Pro Gln Leu Gly Leu Asp Gly
 405 410 415
 Gly Pro Gly Asp Gly Asp Arg His Asn Thr Pro Ser Leu Leu Glu Ala
 420 425 430
 Ala Leu Thr Gln Glu Ala Ser Thr Pro Asp Ser Gln Val Trp Pro Thr
 435 440 445
 Ala Pro Asp Ile Thr Arg Glu Thr Cys Ser Thr Leu Ala Glu Ser Pro
 450 455 460
 Arg Asn Gly Leu Gln Glu Lys His Lys Ser Leu Ala Phe His Arg Pro
 465 470 475 480
 Pro Tyr His Leu Leu Gln Gln Arg Asp Ser Gln Asp Ala Ser Ala Glu
 485 490 495
 Gln Ser Asp His Asp Asp Glu Val Ala Ser Leu Ala Ser Ala Ser Gly
 500 505 510
 Gly Phe Gly Thr Lys Val Pro Ala Pro Arg Leu Pro Ala Lys Asp Trp
 515 520 525
 Lys Thr Lys Gly Ser Pro Arg Thr Ser Pro Lys Leu Lys Arg Lys Ser
 530 535 540
 Lys Lys Asp Asp Gly Asp Ala Ala Met Gly Ser Arg Leu Thr Glu His
 545 550 555 560
 Gln Val Ala Glu Pro Pro Glu Asp Trp Pro Ala Leu Ile Trp Gln Gln
 565 570 575
 Gln Arg Glu Leu Ala Glu Leu Arg His Ser Gln Glu Glu Leu Leu Gln
 580 585 590
 Arg Leu Cys Thr Gln Leu Glu Gly Leu Gln Ser Thr Val Thr Gly His

595 600 605
Val Glu Arg Ala Leu Glu Thr Arg His Glu Gln Glu Gln Arg Arg Leu
610 615 620
Glu Arg Ala Leu Ala Glu Gly Gln Gln Arg Gly Gly Gln Leu Gln Glu
625 630 635 640
Gln Leu Thr Gln Gln Leu Ser Gln Ala Leu Ser Ser Ala Val Ala Gly
645 650 655
Arg Leu Glu Arg Ser Ile Arg Asp Glu Ile Lys Lys Thr Val Pro Pro
660 665 670
Cys Val Ser Arg Ser Leu Glu Pro Met Ala Gly Gln Leu Ser Asn Ser
675 680 685
Val Ala Thr Lys Leu Thr Ala Val Glu Gly Ser Met Lys Glu Asn Ile
690 695 700
Ser Lys Leu Leu Lys Ser Lys Asn Leu Thr Asp Ala Ile Ala Arg Ala
705 710 715 720
Ala Ala Asp Thr Leu Gln Gly Pro Met Gln Ala Ala Tyr Arg Glu Ala
725 730 735
Phe Gln Ser Val Val Leu Pro Ala Phe Glu Lys Ser Cys Gln Ala Met
740 745 750
Phe Gln Gln Ile Asn Asp Ser Phe Arg Leu Gly Thr Gln Glu Tyr Leu
755 760 765
Gln Gln Leu Glu Ser His Met Lys Ser Arg Lys Ala Arg Glu Gln Glu
770 775 780
Ala Arg Glu Pro Val Leu Ala Gln Leu Arg Gly Leu Val Ser Thr Leu
785 790 795 800
Gln Ser Ala Thr Glu Gln Met Ala Ala Thr Val Ala Gly Ser Val Arg
805 810 815
Ala Glu Val Gln His Gln Leu His Val Ala Val Gly Ser Leu Gln Glu
820 825 830

Ser Ile Leu Ala Gln Val Gln Arg Ile Val Lys Gly Glu Val Ser Val
835 840 845

Ala Leu Lys Glu Gln Gln Ala Ala Val Thr Ser Ser Ile Met Gln Ala
850 855 860

Met Arg Ser Ala Ala Gly Thr Pro Val Pro Ser Ala His Leu Asp Cys
865 870 875 880

Gln Ala Gln Gln Ala His Ile Leu Gln Leu Leu Gln Gln Gly His Leu
885 890 895

Asn Gln Ala Phe Gln Gln Ala Leu Thr Ala Ala Asp Leu Asn Leu Val
900 905 910

Leu Tyr Val Cys Glu Thr Val Asp Pro Ala Gln Val Phe Gly Gln Pro
915 920 925

Pro Cys Pro Leu Ser Gln Pro Val Leu Leu Ser Leu Ile Gln Gln Leu
930 935 940

Ala Ser Asp Leu Gly Thr Arg Thr Asp Leu Lys Leu Ser Tyr Leu Glu
945 950 955 960

Glu Ala Val Met His Leu Asp His Ser Asp Pro Ile Thr Arg Asp His
965 970 975

Met Gly Ser Val Met Ala Gln Val Arg Gln Lys Leu Phe Gln Phe Leu
980 985 990

Gln Ala Glu Pro His Asn Ser Leu Gly Lys Ala Ala Arg Arg Leu Ser
995 1000 1005

Leu Met Leu His Gly Leu Val Thr Pro Ser Leu Pro
1010 1015 1020

<210> 3769

<211> 628

<212> PRT

<213> Homo sapiens

<400> 3769

Met	Asn	Ala	Ile	Leu	Gln	Ser	Leu	Ser	Ser	Leu	Gln	Ser	Phe	Ala	Asn
1				5						10					15
Asp	Leu	Leu	Lys	Gln	Gly	Ile	Pro	Trp	Lys	Lys	Ile	Pro	Leu	Asn	Ala
				20						25					30
Leu	Ile	Arg	Arg	Phe	Ala	His	Leu	Leu	Val	Lys	Lys	Asp	Ile	Cys	Asn
				35						40					45
Ser	Glu	Thr	Lys	Lys	Asp	Leu	Leu	Lys	Lys	Val	Lys	Asn	Ala	Ile	Ser
				50						55					60
Ala	Thr	Ala	Glu	Arg	Phe	Ser	Gly	Tyr	Met	Gln	Asn	Asp	Ala	His	Glu
				65						70					75
Phe	Leu	Ser	Gln	Cys	Leu	Asp	Gln	Leu	Lys	Glu	Asp	Met	Glu	Lys	Leu
				85						90					95
Asn	Lys	Thr	Trp	Lys	Thr	Glu	Pro	Val	Ser	Gly	Glu	Glu	Asn	Ser	Pro
				100						105					110
Asp	Ile	Ser	Ala	Thr	Arg	Ala	Tyr	Thr	Cys	Pro	Val	Ile	Thr	Asn	Leu
				115						120					125
Glu	Phe	Glu	Val	Gln	His	Ser	Ile	Ile	Cys	Lys	Ala	Cys	Gly	Glu	Ile
				130						135					140
Ile	Pro	Lys	Arg	Glu	Gln	Phe	Asn	Asp	Leu	Ser	Ile	Asp	Leu	Pro	Arg
				145						150					155
Arg	Lys	Lys	Pro	Leu	Pro	Pro	Arg	Ser	Ile	Gln	Asp	Ser	Leu	Asp	Leu
				165						170					175
Phe	Phe	Arg	Ala	Glu	Glu	Leu	Glu	Tyr	Ser	Cys	Glu	Lys	Cys	Gly	Gly
				180						185					190
Lys	Cys	Ala	Leu	Val	Arg	His	Lys	Phe	Asn	Arg	Leu	Pro	Arg	Val	Leu
				195						200					205

Ile Leu His Leu Lys Arg Tyr Ser Phe Asn Val Ala Leu Ser Leu Asn
210 215 220
Asn Lys Ile Gly Gln Gln Val Ile Ile Pro Arg Tyr Leu Thr Leu Ser
225 230 235 240
Ser His Cys Thr Glu Asn Thr Lys Pro Pro Phe Thr Leu Gly Trp Ser
245 250 255
Ala His Met Ala Ile Ser Arg Pro Leu Lys Ala Ser Gln Met Val Asn
260 265 270
Ser Cys Ile Thr Ser Pro Ser Thr Pro Ser Lys Lys Phe Thr Phe Lys
275 280 285
Ser Lys Ser Ser Leu Ala Leu Cys Leu Asp Ser Asp Ser Glu Asp Glu
290 295 300
Leu Lys Arg Ser Val Ala Leu Ser Gln Arg Leu Cys Glu Met Leu Gly
305 310 315 320
Asn Glu Gln Gln Gln Glu Asp Leu Glu Lys Asp Ser Lys Leu Cys Pro
325 330 335
Ile Glu Pro Asp Lys Ser Glu Leu Glu Asn Ser Gly Phe Asp Arg Met
340 345 350
Ser Glu Glu Glu Leu Leu Ala Ala Val Leu Glu Ile Ser Lys Arg Asp
355 360 365
Ala Ser Pro Ser Leu Ser His Glu Asp Asp Asp Lys Pro Thr Ser Ser
370 375 380
Pro Asp Thr Gly Phe Ala Glu Asp Asp Ile Gln Glu Met Pro Glu Asn
385 390 395 400
Pro Asp Thr Met Glu Thr Glu Lys Pro Lys Thr Ile Thr Glu Leu Asp
405 410 415
Pro Ala Ser Phe Thr Glu Ile Thr Lys Asp Cys Asp Glu Asn Lys Glu
420 425 430
Asn Lys Thr Pro Glu Gly Ser Gln Gly Glu Val Asp Trp Leu Gln Gln

435 440 445
 Tyr Asp Met Glu Arg Glu Arg Glu Glu Gln Glu Leu Gln Gln Ala Leu
 450 455 460
 Ala Gln Ser Leu Gln Glu Gln Glu Ala Trp Glu Gln Lys Glu Asp Asp
 465 470 475 480
 Asp Leu Lys Arg Ala Thr Glu Leu Ser Leu Gln Glu Phe Asn Asn Ser
 485 490 495
 Phe Val Asp Ala Leu Gly Ser Asp Glu Asp Ser Gly Asn Glu Asp Val
 500 505 510
 Phe Asp Met Glu Tyr Thr Glu Ala Glu Ala Glu Glu Leu Lys Arg Asn
 515 520 525
 Ala Glu Thr Gly Asn Leu Pro His Ser Tyr Arg Leu Ile Ser Val Val
 530 535 540
 Ser His Ile Gly Ser Thr Ser Ser Ser Gly His Tyr Ile Ser Asp Val
 545 550 555 560
 Tyr Asp Ile Lys Lys Gln Ala Trp Phe Thr Tyr Asn Asp Leu Glu Val
 565 570 575
 Ser Lys Ile Gln Glu Ala Ala Val Gln Ser Asp Arg Asp Arg Ser Gly
 580 585 590
 Tyr Ile Phe Phe Tyr Met His Lys Glu Ile Phe Asp Glu Leu Leu Glu
 595 600 605
 Thr Glu Lys Asn Ser Gln Ser Leu Ser Thr Glu Val Gly Lys Thr Thr
 610 615 620
 Arg Gln Ala Ser
 625

<210> 3770

<211> 374

<212> PRT

<213> Homo sapiens

<400> 3770

Met Ala Pro Pro Pro Lys Glu Val Glu Glu Asp Ser Glu Asp Glu Glu
1 5 10 15
Met Ser Glu Asp Glu Glu Asp Asp Ser Ser Gly Glu Glu Val Val Ile
20 25 30
Pro Gln Lys Lys Gly Lys Lys Ala Ala Ala Thr Ser Ala Lys Lys Val
35 40 45
Val Val Ser Pro Thr Lys Lys Val Ala Val Ala Thr Pro Ala Lys Lys
50 55 60
Ala Ala Val Thr Pro Gly Lys Lys Ala Ala Ala Thr Pro Ala Lys Lys
65 70 75 80
Thr Val Thr Pro Ala Lys Ala Val Thr Thr Pro Gly Lys Lys Gly Ala
85 90 95
Thr Pro Gly Lys Ala Leu Val Ala Thr Pro Gly Lys Lys Gly Ala Ala
100 105 110
Ile Pro Ala Lys Gly Ala Lys Asn Gly Lys Asn Ala Lys Lys Glu Asp
115 120 125
Ser Asp Glu Glu Glu Asp Asp Asp Ser Glu Glu Asp Glu Glu Asp Asp
130 135 140
Glu Asp Glu Asp Glu Asp Glu Asp Glu Ile Glu Pro Ala Ala Met Lys
145 150 155 160
Ala Ala Ala Ala Ala Pro Ala Ser Glu Asp Glu Asp Asp Glu Asp Asp
165 170 175
Glu Asp Asp Glu Asp Asp Asp Asp Asp Glu Glu Asp Asp Ser Glu Glu
180 185 190
Glu Ala Met Glu Thr Thr Pro Ala Lys Gly Lys Lys Ala Ala Lys Val

195	200	205
Val Pro Val Lys Ala Lys Asn Val Ala Glu Asp Gln Asp Glu Glu Glu		
210	215	220
Asp Asp Glu Asp Glu Asp Asp Asp Asp Asp Glu Asp Asp Glu Asp Asp		
225	230	235
Asp Asp Glu Asp Asp Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Pro		
245	250	255
Val Lys Glu Ala Pro Gly Lys Arg Lys Lys Glu Met Ala Lys Gln Lys		
260	265	270
Ala Ala Pro Glu Ala Lys Lys Gln Lys Val Glu Gly Thr Glu Pro Thr		
275	280	285
Thr Ala Phe Asn Leu Phe Val Gly Asn Leu Asn Phe Asn Lys Ser Ala		
290	295	300
Pro Glu Leu Lys Thr Gly Ile Ser Asp Val Phe Ala Lys Asn Asp Leu		
305	310	315
Ala Val Val Asp Val Arg Ile Gly Met Thr Arg Lys Phe Gly Tyr Val		
325	330	335
Asp Phe Glu Ser Ala Glu Asp Leu Glu Lys Ala Leu Glu Leu Thr Gly		
340	345	350
Leu Lys Val Phe Gly Asn Glu Ile Lys Leu Glu Lys Pro Lys Gly Lys		
355	360	365
Asp Ser Lys Lys Gly Met		
370		

<210> 3771

<211> 218

<212> PRT

<213> Homo sapiens

<400> 3771

Met Pro Asp Gln Asp Lys Lys Val Lys Thr Thr Glu Lys Ser Thr Asp
 1 5 10 15
 Lys Gln Gln Glu Ile Thr Ile Arg Asp Tyr Ser Asp Leu Lys Arg Leu
 20 25 30
 Arg Cys Leu Leu Asn Val Gln Ser Ser Lys Gln Gln Leu Pro Ala Ile
 35 40 45
 Asn Phe Asp Ser Ala Gln Asn Ser Met Thr Lys Ser Glu Pro Ala Ile
 50 55 60
 Arg Ala Gly Gly His Arg Ala Arg Gly Gln Trp His Glu Ser Thr Glu
 65 70 75 80
 Ala Val Glu Leu Glu Asn Phe Ser Ile Asn Tyr Lys Asn Glu Arg Asn
 85 90 95
 Phe Ser Lys His Pro Gln Arg Lys Leu Phe Gln Glu Ile Phe Thr Ala
 100 105 110
 Leu Val Lys Asn Arg Leu Ile Ser Arg Glu Trp Val Asn Arg Ala Pro
 115 120 125
 Ser Ile His Phe Leu Arg Val Leu Ile Cys Leu Arg Leu Leu Met Arg
 130 135 140
 Asp Pro Cys Tyr Gln Glu Ile Leu His Ser Leu Gly Gly Ile Glu Asn
 145 150 155 160
 Leu Ala Gln Tyr Met Glu Ile Val Ala Asn Glu Tyr Leu Gly Tyr Gly
 165 170 175
 Glu Glu Gln His Thr Val Asp Lys Leu Val Asn Met Thr Cys Lys Cys
 180 185 190
 Tyr Cys Arg Asp Thr Ala Ile Phe Val Asp Leu Leu Glu Lys Ala Val
 195 200 205
 Trp Cys Leu Gln Gln Glu Thr Arg Ile Leu

210

215

<210> 3772

<211> 219

<212> PRT

<213> Homo sapiens

<400> 3772

Met Met Leu Gln Gly Pro Lys Pro Met Arg Ser Ser Gln Leu Met Gln
1 5 10 15
Ser Ser Gly Arg Ser Gly Ser Ser Leu Val Ser Pro Phe Ser Ser Ala
20 25 30
Thr Ala Ala Leu Pro Pro Ser Leu Asn Leu Thr Thr Pro Ala Ser Thr
35 40 45
Ser Gln Asp Ala Ser Gln Cys Gln Pro Ser Pro Asp Phe Ser His Asp
50 55 60
Arg Gln Leu Arg Leu Leu Leu Ser Gln Pro Ile Gln Pro Met Met Pro
65 70 75 80
Gly Ser Cys Asp Ala Arg Gln Pro Ser Glu Val Ser Arg Thr Gly Arg
85 90 95
Gln Val Lys Tyr Ala Gln Ser Gln Thr Val Phe Gln Asn Pro Asp Ala
100 105 110
His Pro Ala Asn Ser Ser Ser Ala Pro Met Pro Val Leu Leu Met Gly
115 120 125
Gln Ala Val Leu His Pro Ser Phe Pro Ala Ser Gln Pro Ser Pro Leu
130 135 140
Gln Pro Ala Gln Ala Arg Gln Gln Pro Pro Gln His Tyr Leu Gln Val
145 150 155 160

Gln Ala Pro Thr Ser Leu His Ser Glu Gln Gln Asp Ser Leu Leu Leu
 165 170 175
 Ser Thr Tyr Ser Gln Gln Pro Gly Thr Leu Gly Tyr Pro Gln Pro Pro
 180 185 190
 Pro Ala Gln Pro Gln Pro Leu Arg Pro Pro Arg Arg Val Ser Ser Leu
 195 200 205
 Ser Glu Ser Ser Gly Leu Gln Gln Pro Pro Arg
 210 215

<210> 3773

<211> 328

<212> PRT

<213> Homo sapiens

<400> 3773

Met Arg Arg Ser Trp Lys Met Ala Leu Ser Gly Gly Leu Arg Cys Cys
 1 5 10 15
 Arg Arg Val Leu Ser Trp Val Pro Val Leu Val Ile Val Leu Val Val
 20 25 30
 Leu Trp Ser Tyr Tyr Ala Tyr Val Phe Glu Leu Cys Leu Val Ile Tyr
 35 40 45
 Leu Ile Leu Tyr His Ala Ile Phe Val Phe Phe Thr Trp Thr Tyr Trp
 50 55 60
 Lys Ser Ile Phe Thr Leu Pro Gln Gln Pro Asn Gln Lys Phe His Leu
 65 70 75 80
 Ser Tyr Thr Asp Lys Glu Arg Tyr Glu Asn Glu Glu Arg Pro Glu Val
 85 90 95
 Gln Lys Gln Met Leu Val Asp Met Ala Lys Lys Leu Pro Val Tyr Thr

100	105	110	
Arg Thr Gly Ser Gly Ala Val	Arg Phe Cys Asp Arg Cys His Leu Ile		
115	120	125	
Lys Pro Asp Arg Cys His His Cys Ser Val Cys Ala Met Cys Val Leu			
130	135	140	
Lys Met Asp His His Cys Pro Trp Val Asn Asn Cys Ile Gly Phe Ser			
145	150	155	160
Asn Tyr Lys Phe Phe Leu Gln Phe Leu Ala Tyr Ser Val Leu Tyr Cys			
165	170	175	
Leu Tyr Ile Ala Thr Thr Val Phe Ser Tyr Phe Ile Lys Tyr Trp Arg			
180	185	190	
Gly Glu Leu Pro Ser Val Arg Ser Lys Phe His Val Leu Phe Leu Leu			
195	200	205	
Phe Val Ala Cys Met Phe Phe Val Ser Leu Val Ile Leu Phe Gly Tyr			
210	215	220	
His Cys Trp Leu Val Ser Arg Asn Lys Thr Thr Leu Glu Ala Phe Cys			
225	230	235	240
Thr Pro Val Phe Thr Ser Gly Pro Glu Lys Asn Gly Phe Asn Leu Gly			
245	250	255	
Phe Ile Lys Asn Ile Gln Gln Val Phe Gly Asp Lys Lys Lys Phe Trp			
260	265	270	
Leu Ile Pro Ile Gly Ser Ser Pro Gly Asp Gly His Ser Phe Pro Met			
275	280	285	
Arg Ser Met Asn Glu Ser Gln Asn Pro Leu Leu Ala Asn Glu Glu Thr			
290	295	300	
Trp Glu Asp Asn Glu Asp Asp Asn Gln Asp Tyr Pro Glu Gly Ser Ser			
305	310	315	320
Ser Leu Ala Val Glu Thr Glu Thr			
325			

<210> 3774

<211> 189

<212> PRT

<213> Homo sapiens

<400> 3774

Met Glu Asp Pro Cys Ser Asn Thr Ser Cys Val Pro Pro Thr Thr Trp

1 5 10 15

Thr Ala Val Pro Pro Ser Ala Leu Gly Pro Gln Arg Asn Arg Ser Val

20 25 30

Ala Ser Phe Phe Ser Tyr Leu Gln Ile Pro Gly Arg Pro Arg Arg Cys

35 40 45

Leu Leu Gly Ala Met Ser Ser Cys Ser Ala Ser Ser Cys Pro Arg Lys

50 55 60

Ser Ser Gly Val Gln Gly Cys Pro Lys Pro Ala Ala Pro Ser Arg Leu

65 70 75 80

Val Pro Pro Ile Leu Asp Ile Trp Ala Pro Leu Ser Pro Lys Thr Leu

85 90 95

Pro Leu Gly Gly Pro Arg Ser Val Cys Val Ser Phe Ser Leu Pro Ala

100 105 110

Cys Leu Cys Ile Leu Ser Pro Glu Val Pro Ser Leu His Pro Arg Thr

115 120 125

Leu Val Thr Ser Phe Glu Gly Lys His Gly Ser Val Arg Tyr Cys Ile

130 135 140

Lys Ala Thr Leu His Arg Pro Trp Val Pro Ala Arg Arg Ala Arg Lys

145 150 155 160

Val Phe Thr Val Ile Glu Pro Val Asp Ile Asn Thr Pro Ala Leu Leu

	165	170	175
Val Ser Gly His Pro Trp Gly Gly Arg Leu Gly Val Leu			
	180	185	

<210> 3775

<211> 128

<212> PRT

<213> Homo sapiens

<400> 3775

Met Gly Gln Asp Tyr Tyr Ser Val Leu Gly Ile Thr Arg Asn Ser Glu			
1	5	10	15
Asp Ala Gln Ile Lys Gln Ala Tyr Arg Arg Leu Ala Leu Lys His His			
20	25	30	
Pro Leu Lys Ser Asn Glu Pro Ser Ser Ala Glu Ile Phe Arg Gln Ile			
35	40	45	
Ala Glu Ala Tyr Asp Val Leu Ser Asp Pro Met Lys Arg Gly Ile Tyr			
50	55	60	
Asp Lys Phe Gly Glu Glu Gly Leu Lys Gly Gly Ile Pro Leu Glu Phe			
65	70	75	80
Gly Ser Gln Thr Pro Trp Thr Thr Gly Tyr Val Phe His Gly Lys Pro			
85	90	95	
Glu Lys Val Phe His Glu Phe Phe Gly Gly Asn Asn Pro Phe Ser Gly			
100	105	110	
Lys Arg Ser Ser Ser Pro Thr Leu Pro Tyr Arg Glu Arg Thr Leu Leu			
115	120	125	

<210> 3776

<211> 103

<212> PRT

<213> Homo sapiens

<400> 3776

Met Ser Asp Ser Arg Leu Thr Thr Asn Asp Leu His Ile Val Pro Tyr

1 5 10 15

Leu Glu Asp Met Ser Glu Arg Glu Asp Gln Asn Pro Thr Ser Thr Ser

20 25 30

Glu Arg Asn Gln Pro Ala Phe Thr Trp Gln Glu Val Gly Ser Gly Ile

35 40 45

Cys Met Gly Phe Pro Leu Gln Gln Ala Glu Ala Ala Leu Ala Cys Pro

50 55 60

Leu Pro Thr Lys Leu Phe Trp Pro Trp Lys Gly Ala His Ser Ser Ser

65 70 75 80

Ile Arg Tyr Ser Leu Gly Arg Ala Asp Ser Gln Gly Gly Ser Ser Phe

85 90 95

Tyr Ser Gln Gly Ala Gly Ile

100

<210> 3777

<211> 612

<212> PRT

<213> Homo sapiens

<400> 3777

Met Trp Met His Cys Cys Trp Ala Trp Pro Pro Arg Ser Gln Ser Glu

1	5	10	15
Arg Thr Met Cys Trp Leu Lys Met Cys Gly Val Ser Leu Arg Leu Ser			
20	25	30	
Leu Gln Val Val Asn Ser Trp Pro Leu Gly Arg Gly Ser Ala Gly Leu			
35	40	45	
Pro Glu Pro Asp Phe Trp Pro Gly Pro Leu Glu Phe Ser Arg Thr Asp			
50	55	60	
His Leu Ala Ser Cys Leu Gln Arg Gly Arg Asp Leu Gly Leu Pro Ser			
65	70	75	80
Tyr Thr Lys Ala Arg Ala Ala Leu Gly Leu Ser Pro Ile Thr Arg Trp			
85	90	95	
Gln Asp Ile Asn Pro Ala Leu Ser Arg Ser Asn Asp Thr Val Leu Glu			
100	105	110	
Ala Thr Ala Ala Leu Tyr Asn Gln Asp Leu Ser Trp Leu Glu Leu Leu			
115	120	125	
Pro Gly Gly Leu Leu Glu Ser His Arg Asp Pro Gly Pro Leu Phe Ser			
130	135	140	
Thr Ile Val Leu Glu Gln Phe Val Arg Leu Arg Asp Gly Asp Arg Tyr			
145	150	155	160
Trp Phe Glu Asn Thr Arg Asn Gly Leu Phe Ser Lys Lys Glu Ile Glu			
165	170	175	
Glu Ile Arg Asn Thr Thr Leu Gln Asp Val Leu Val Ala Val Ile Asn			
180	185	190	
Ile Asp Pro Ser Ala Leu Gln Pro Asn Val Phe Val Trp His Lys Gly			
195	200	205	
Asp Pro Cys Pro Gln Pro Arg Gln Leu Ser Thr Glu Gly Leu Pro Ala			
210	215	220	
Cys Ala Pro Ser Val Val Arg Asp Tyr Phe Glu Gly Ser Gly Phe Gly			
225	230	235	240

Phe Gly Val Thr Ile Gly Thr Leu Cys Cys Phe Pro Leu Val Ser Leu
245 250 255
Leu Ser Ala Trp Ile Val Ala Arg Leu Arg Met Arg Asn Phe Lys Arg
260 265 270
Leu Gln Gly Gln Asp Arg Gln Ser Ile Val Ser Glu Lys Leu Val Gly
275 280 285
Gly Met Glu Ala Leu Glu Trp Gln Gly His Lys Glu Pro Cys Arg Pro
290 295 300
Val Leu Val Tyr Leu Gln Pro Gly Gln Ile Arg Val Val Asp Gly Arg
305 310 315 320
Leu Thr Val Leu Arg Thr Ile Gln Leu Gln Pro Pro Gln Lys Val Asn
325 330 335
Phe Val Leu Ser Ser Asn Arg Gly Arg Arg Thr Leu Leu Leu Lys Ile
340 345 350
Pro Lys Glu Tyr Asp Leu Val Leu Leu Phe Asn Leu Glu Glu Glu Arg
355 360 365
Gln Ala Leu Val Glu Asn Leu Arg Gly Ala Leu Lys Glu Ser Gly Leu
370 375 380
Ser Ile Gln Glu Trp Glu Leu Arg Glu Gln Glu Leu Met Arg Ala Ala
385 390 395 400
Val Thr Arg Glu Gln Arg Arg His Leu Leu Glu Thr Phe Phe Arg His
405 410 415
Leu Phe Ser Gln Val Leu Asp Ile Asn Gln Ala Asp Ala Gly Thr Leu
420 425 430
Pro Leu Asp Ser Ser Gln Lys Val Arg Glu Ala Leu Thr Cys Glu Leu
435 440 445
Ser Arg Ala Glu Phe Ala Glu Ser Leu Gly Leu Lys Pro Gln Asp Met
450 455 460
Phe Val Glu Ser Met Phe Ser Leu Ala Asp Lys Asp Gly Asn Gly Tyr

465 470 475 480
 Leu Ser Phe Arg Glu Phe Leu Asp Ile Leu Val Val Phe Met Lys Gly
 485 490 495
 Ser Pro Glu Glu Lys Ser Arg Leu Met Phe Arg Met Tyr Asp Phe Asp
 500 505 510
 Gly Asn Gly Leu Ile Ser Lys Asp Glu Phe Ile Arg Met Leu Arg Ser
 515 520 525
 Phe Ile Glu Ile Ser Asn Asn Cys Leu Ser Lys Ala Gln Leu Ala Glu
 530 535 540
 Val Val Glu Ser Met Phe Arg Glu Ser Gly Phe Gln Asp Lys Glu Glu
 545 550 555 560
 Leu Thr Trp Glu Asp Phe His Phe Met Leu Arg Asp His Asn Ser Glu
 565 570 575
 Leu Arg Phe Thr Gln Leu Cys Val Lys Gly Val Glu Val Pro Glu Val
 580 585 590
 Ile Lys Asp Leu Cys Arg Arg Ala Ser Tyr Ile Ser Gln Asp Met Ile
 595 600 605
 Cys Pro Ser Pro
 610

<210> 3778

<211> 1093

<212> PRT

<213> Homo sapiens

<400> 3778

Met Leu Cys Lys Lys Lys Lys Ile Pro Cys Ser Glu Glu Phe Leu Leu
 1 5 10 15

Ser Lys Thr Leu Gly Asp Pro Val Lys Ile Arg Ala Trp Asn Ile Ala
 20 25 30
 Gly Leu Pro Thr Asp Thr Phe Ser Ile Asp Asn Gly Val Ile Val Asn
 35 40 45
 Asn Cys Arg Arg Trp Pro Leu Met Ile Asp Pro Gln Gly Gln Ala Asn
 50 55 60
 Lys Trp Ile Lys Asn Ser Glu Arg Glu Asn Gln Leu Ser Val Ile Lys
 65 70 75 80
 Leu Ser Asp Ser Asp Tyr Met Arg Thr Leu Glu Asn Cys Ile Gln Phe
 85 90 95
 Gly Thr Pro Leu Leu Leu Glu Asn Val Gly Glu Glu Leu Asp Pro Ser
 100 105 110
 Leu Glu Pro Leu Leu Leu Arg Gln Thr Phe Lys Gln Gly Gly Ile Asp
 115 120 125
 Cys Ile Arg Leu Gly Glu Val Ile Ile Glu Tyr Ser Phe Asp Phe Lys
 130 135 140
 Phe Tyr Ile Thr Thr Lys Leu Arg Asn Pro His Tyr Met Pro Glu Leu
 145 150 155 160
 Ala Thr Lys Val Ser Leu Leu Asn Phe Met Ile Thr Pro Glu Gly Leu
 165 170 175
 Glu Asp Gln Leu Leu Gly Ile Val Val Ala Lys Glu Arg Pro Glu Leu
 180 185 190
 Glu Glu Glu Arg Asn Ala Leu Ile Leu Gln Ser Ala Ala Asn Lys Lys
 195 200 205
 Gln Leu Lys Asp Ile Glu Lys Lys Ile Leu Glu Thr Leu Ser Ser Ser
 210 215 220
 Glu Gly Asn Ile Leu Glu Asp Glu Ser Ala Ile Lys Val Leu Asp Ser
 225 230 235 240
 Ala Lys Met Met Ser Asn Glu Ile Thr Lys Lys Gln Gln Ile Ala Glu

	245		250		255
Lys Thr Glu Leu Lys Ile Ala Glu Ser Arg Glu Gly Tyr Arg Pro Ile					
	260		265		270
Ala Lys His Ser Ser Val Leu Phe Phe Ser Ile Ala Asp Leu Ala Asn					
	275		280		285
Ile Asp Pro Met Tyr Gln Tyr Ser Leu Thr Trp Phe Val Asn Leu Tyr					
	290		295		300
Ile Asn Ser Ile His Asp Ser Asn Lys Ser Lys Ile Leu Glu Lys Arg					
305		310		315	320
Leu Arg Tyr Leu Asn Asp His Phe Thr Tyr Asn Leu Tyr Cys Asn Ile					
	325		330		335
Cys Arg Ser Leu Phe Glu Lys Asp Lys Leu Leu Phe Ser Phe Leu Leu					
	340		345		350
Cys Ala Asn Leu Leu Leu Ala Arg Lys Glu Ile Glu Tyr Gln Glu Leu					
	355		360		365
Met Phe Leu Leu Thr Gly Gly Val Ser Leu Lys Ser Ala Glu Lys Asn					
	370		375		380
Pro Asp Pro Thr Trp Leu Gln Asp Lys Ser Trp Glu Glu Ile Cys Arg					
385		390		395	400
Ala Ser Glu Phe Pro Ala Phe Arg Gly Leu Arg Gln His Phe Cys Glu					
	405		410		415
His Ile Tyr Glu Trp Arg Glu Ile Tyr Asp Ser Lys Glu Pro His Asn					
	420		425		430
Ala Lys Phe Pro Ala Pro Met Asp Lys Asn Leu Asn Glu Leu Gln Lys					
	435		440		445
Ile Ile Ile Leu Arg Cys Leu Arg Pro Asp Lys Ile Thr Pro Ala Ile					
	450		455		460
Thr Asn Tyr Val Thr Asp Lys Leu Gly Lys Lys Phe Val Glu Pro Pro					
465		470		475	480

Pro Phe Asp Leu Thr Lys Ser Tyr Leu Asp Ser Asn Cys Thr Ile Pro			
	485	490	495
Leu Ile Phe Val Leu Ser Pro Gly Ala Asp Pro Met Ala Ser Leu Leu			
	500	505	510
Lys Phe Ala Asn Asp Lys Ser Met Ser Gly Asn Lys Phe Gln Ala Ile			
	515	520	525
Ser Leu Gly Gln Gly Gln Gly Pro Ile Ala Ala Lys Met Ile Lys Ala			
	530	535	540
Ala Ile Glu Glu Gly Thr Trp Val Cys Leu Gln Asn Cys His Leu Ala			
545	550	555	560
Val Ser Trp Met Pro Met Leu Glu Lys Ile Cys Glu Asp Phe Thr Ser			
	565	570	575
Glu Thr Cys Asn Ser Ser Phe Arg Leu Trp Leu Thr Ser Tyr Pro Ser			
	580	585	590
Ser Lys Phe Pro Val Thr Ile Leu Gln Asn Gly Val Lys Met Thr Asn			
	595	600	605
Glu Pro Pro Thr Gly Leu Arg Leu Asn Leu Leu Gln Ser Tyr Leu Thr			
	610	615	620
Asp Pro Val Ser Asp Pro Glu Phe Phe Lys Gly Cys Arg Gly Lys Glu			
625	630	635	640
Leu Ala Trp Glu Lys Leu Leu Phe Gly Val Cys Phe Phe His Ala Leu			
	645	650	655
Val Gln Glu Arg Lys Lys Phe Gly Pro Leu Gly Trp Asn Ile Pro Tyr			
	660	665	670
Gly Phe Asn Glu Ser Asp Leu Arg Ile Ser Ile Arg Gln Leu Gln Leu			
	675	680	685
Phe Ile Asn Glu Tyr Asp Thr Ile Pro Phe Glu Ala Ile Ser Tyr Leu			
	690	695	700
Thr Gly Glu Cys Asn Tyr Gly Gly Arg Val Thr Asp Asp Trp Asp Arg			

705 710 715 720
Arg Leu Leu Leu Thr Met Leu Ala Asp Phe Tyr Asn Leu Tyr Ile Val
 725 730 735
Glu Asn Pro His Tyr Lys Phe Ser Pro Ser Gly Asn Tyr Phe Ala Pro
 740 745 750
Pro Lys Gly Thr Tyr Glu Asp Tyr Ile Glu Phe Ile Lys Lys Leu Pro
 755 760 765
Phe Thr Gln His Pro Glu Ile Phe Gly Leu His Glu Asn Val Asp Ile
 770 775 780
Ser Lys Asp Leu Gln Gln Thr Lys Thr Leu Phe Glu Ser Leu Leu Leu
785 790 795 800
Thr Gln Gly Gly Ser Lys Gln Thr Gly Ala Ser Gly Ser Thr Asp Gln
 805 810 815
Ile Leu Leu Glu Ile Thr Lys Asp Ile Leu Asn Lys Leu Pro Ser Asp
 820 825 830
Phe Asp Ile Glu Met Ala Leu Arg Lys Tyr Pro Val Arg Tyr Glu Glu
 835 840 845
Ser Met Asn Thr Val Leu Val Gln Glu Met Glu Arg Phe Asn Asn Leu
 850 855 860
Ile Ile Thr Ile Arg Asn Thr Leu Arg Asp Leu Glu Lys Ala Ile Lys
865 870 875 880
Gly Val Val Val Met Asp Ser Ala Leu Glu Ala Leu Ser Gly Ser Leu
 885 890 895
Leu Val Gly Lys Val Pro Glu Ile Trp Ala Lys Arg Ser Tyr Pro Ser
 900 905 910
Leu Lys Pro Leu Gly Ser Tyr Ile Thr Asp Phe Leu Ala Arg Leu Asn
 915 920 925
Phe Leu Gln Asp Trp Tyr Asn Ser Gly Lys Pro Cys Val Phe Trp Leu
 930 935 940

Ser Gly Phe Phe Phe Thr Gln Ala Phe Leu Thr Gly Ala Met Gln Asn
 945 950 955 960
 Tyr Ala Arg Lys Tyr Thr Thr Pro Ile Asp Leu Leu Gly Tyr Glu Phe
 965 970 975
 Glu Val Ile Pro Ser Asp Thr Ser Asp Thr Ser Pro Glu Asp Gly Val
 980 985 990
 Tyr Ile His Gly Leu Tyr Leu Asp Gly Ala Arg Trp Asp Arg Glu Ser
 995 1000 1005
 Gly Leu Leu Ala Glu Gln Tyr Pro Lys Leu Leu Phe Asp Leu Met Pro
 1010 1015 1020
 Ile Ile Trp Ile Lys Pro Thr Gln Lys Ser Arg Ile Ile Lys Ser Asp
 1025 1030 1035 1040
 Ala Tyr Val Cys Pro Leu Tyr Lys Thr Ser Glu Arg Lys Gly Thr Leu
 1045 1050 1055
 Ser Thr Thr Gly His Ser Thr Asn Phe Val Ile Ala Met Leu Leu Lys
 1060 1065 1070
 Thr Asp Gln Pro Thr Arg His Trp Ile Lys Arg Gly Val Ala Leu Leu
 1075 1080 1085
 Cys Gln Leu Asp Asp
 1090

<210> 3779

<211> 123

<212> PRT

<213> Homo sapiens

<400> 3779

Met Asp Val Ala Asp Phe Val Tyr Pro Phe Asn Ser Trp Trp Thr Phe

1	5	10	15
Gly Phe Ser Asn Phe Phe Phe Phe Thr Ile Met Asn Ile Cys Val Gln			
20	25	30	
Val Phe Val Trp Thr Asn Val Phe Ile Phe Leu Ile Thr His Leu Arg			
35	40	45	
Val Glu Leu Val Ser His Lys Ile Thr Val Phe Ser Phe Leu Arg Lys			
50	55	60	
Cys Gln Ile Ile Phe Pro Ser Gly Cys Thr Ile Leu His Ser His Gln			
65	70	75	80
Gln Trp Met Arg Leu Pro Val Ser Pro His Phe Cys Ala Cys Glu Val			
85	90	95	
Ala Val Ser Ser Trp Cys Leu Pro Phe Leu Lys Asp Ser Lys Val Cys			
100	105	110	
Arg Tyr Arg His Ser Leu Ala Ile Phe Leu Arg			
115	120		

<210> 3780

<211> 130

<212> PRT

<213> Homo sapiens

<400> 3780

Met Phe Ser Pro Val Ile Cys Cys Pro Leu Ser Ser Glu Arg Asp Ser			
1	5	10	15
Leu Lys Ile Leu Ser Gln Met Gly Ser Glu Phe Ser Ser Gly Phe Ser			
20	25	30	
Ser His Cys Leu Ile Ala Cys Thr Asp Leu Ala Leu Cys Cys Pro Ala			
35	40	45	

Cys Asp Leu Phe Ser His His Cys Pro Ser Leu Ser Leu Phe Cys Ser
 50 55 60
 Val Asp Leu Leu Tyr Tyr Ile Val Cys Thr His Thr Arg His Tyr Phe
 65 70 75 80
 Phe Leu Cys Leu Pro Ser Ser Val Thr Cys Ile His Leu Leu Pro Leu
 85 90 95
 Ile Cys Lys Phe Leu Glu Gly Arg Asn Phe Val Leu Phe Thr Ala Val
 100 105 110
 Leu Leu Thr Leu Arg Thr Ile Met Thr His Ser Arg Arg Ser Asn Ile
 115 120 125
 Phe Glu
 130

<210> 3781

<211> 167

<212> PRT

<213> Homo sapiens

<400> 3781

Met Ser Ser Pro Val Ser Ala Pro Pro His Ala Gly His Ser Trp Val
 1 5 10 15
 Pro Gly His Trp Ser Val Leu Phe His Phe Arg Lys Arg Ala Ile Lys
 20 25 30
 Tyr Arg Gly Asp Lys Gly Val Leu Thr Pro Ser Tyr Arg His Val Asp
 35 40 45
 Arg Leu Val Gln Ala Leu Gly Ser Gly Cys Ser Pro Lys Lys Ser Leu
 50 55 60
 Ser Tyr Arg Asn Lys Glu Val Gly Val Asp Val Cys Ala Val Pro Pro

65 70 75 80
 Glu His Arg Ala Phe Leu His Pro Glu Arg Asn Glu Asn Phe Pro Phe
 85 90 95
 Ser His Arg His Pro His Gly Leu Ala Ile Leu Asp Ser Cys Arg His
 100 105 110
 Arg Asp His His Ser Leu Phe Leu Leu Gly Leu Ser Cys Ser Pro Ala
 115 120 125
 Asp His Thr Gly Arg Tyr Asp Asp Gly Ala Ala Ala Thr Thr Ser Pro
 130 135 140
 Thr Arg Gly Thr His His Lys Arg Ala Cys Val Asp Gly Phe Leu Ile
 145 150 155 160
 Lys Thr Arg Lys Met Val Thr
 165

<210> 3782

<211> 972

<212> PRT

<213> Homo sapiens

<400> 3782

Met Met Ala Ala Ala Ala Ala Ala Ala Ala Gly Ser Ser Ser Ser Gly
 1 5 10 15
 Gly Gly Gly Gly Gly Ser Gly Ser Gly Ser Ser Ser Gly Ser Ser Ser
 20 25 30
 Ser Asp Thr Ser Ser Thr Gly Glu Glu Glu Arg Met Arg Arg Leu Phe
 35 40 45
 Gln Thr Cys Asp Gly Asp Gly Asp Gly Tyr Ile Ser Arg Asn Asp Leu
 50 55 60

Leu Met Val Cys Arg Gln Leu Asn Met Glu Glu Ser Val Ala Glu Ile
65 70 75 80
Met Asn Gln Leu Gly Ala Asp Glu Asn Gly Lys Ile Ser Phe Gln Asp
85 90 95
Phe Thr Arg Cys Arg Met Gln Leu Val Arg Glu Ile Arg Lys Glu Glu
100 105 110
Val Asp Leu Ser Ala Lys Ser Asp Asn Ser Cys Thr Lys Lys Leu Arg
115 120 125
Asp Arg Ile Ala Ser Trp Pro Thr Ser Ser Asp Asn Ser Leu Gly Ala
130 135 140
Leu Ser Ala Ala Arg Glu Ser Trp Glu Tyr Asp Ser Gly Ala Arg Asp
145 150 155 160
Leu Gln Ser Pro Asp Val Gln Ser Gln Ser Ala Leu Gln Lys Leu Leu
165 170 175
Glu Tyr Gly Gly Ser Ser Leu His Gln Gln Ala Ala Leu His Lys Leu
180 185 190
Leu Thr Gln Ser Pro His Ile Gly Asn Ser Val Gly Gly Ser Tyr Leu
195 200 205
Glu Leu Ala Asn Thr Leu His Ser Ala Ala Leu Ala Ser Leu Lys Gly
210 215 220
Asp Ile Val Glu Leu Asn Lys Arg Leu Gln Gln Thr Glu Arg Glu Arg
225 230 235 240
Asp Leu Leu Glu Lys Lys Leu Ala Lys Ala Gln Cys Glu Gln Ser His
245 250 255
Leu Met Arg Glu His Glu Asp Val Gln Glu Arg Thr Thr Leu Arg Tyr
260 265 270
Glu Glu Arg Ile Thr Glu Leu His Ser Val Ile Ala Glu Leu Asn Lys
275 280 285
Lys Ile Asp Arg Leu Gln Gly Thr Thr Ile Arg Glu Glu Asp Glu Tyr

290 295 300
Ser Glu Leu Arg Ser Glu Leu Ser Gln Ser Gln His Glu Val Asn Glu
305 310 315 320
Asp Ser Arg Ser Met Asp Gln Asp Gln Thr Ser Val Ser Ile Pro Glu
325 330 335
Asn Gln Ser Thr Met Val Thr Ala Asp Met Asp Asn Cys Ser Asp Leu
340 345 350
Asn Ser Glu Leu Gln Arg Val Leu Thr Gly Leu Glu Asn Val Val Cys
355 360 365
Gly Arg Lys Lys Ser Ser Cys Ser Leu Ser Val Ala Glu Val Asp Arg
370 375 380
His Ile Glu Gln Leu Thr Thr Ala Ser Glu His Cys Asp Leu Ala Ile
385 390 395 400
Lys Thr Val Glu Glu Ile Glu Gly Val Leu Gly Arg Asp Leu Tyr Pro
405 410 415
Asn Leu Ala Glu Glu Arg Ser Arg Trp Glu Lys Glu Leu Ala Gly Leu
420 425 430
Arg Glu Glu Asn Glu Ser Leu Thr Ala Met Leu Cys Ser Lys Glu Glu
435 440 445
Glu Leu Asn Arg Thr Lys Ala Thr Met Asn Ala Ile Arg Glu Glu Arg
450 455 460
Asp Arg Leu Arg Arg Arg Val Arg Glu Leu Gln Thr Arg Leu Gln Ser
465 470 475 480
Val Gln Ala Thr Gly Pro Ser Ser Pro Gly Arg Leu Thr Ser Thr Asn
485 490 495
Arg Pro Ile Asn Pro Ser Thr Gly Glu Leu Ser Thr Ser Ser Ser Ser
500 505 510
Asn Asp Ile Pro Ile Ala Lys Ile Ala Glu Arg Val Lys Leu Ser Lys
515 520 525

Thr Arg Ser Glu Ser Ser Ser Ser Asp Arg Pro Val Leu Gly Ser Glu
 530 535 540
 Ile Ser Gly Ile Gly Val Ser Ser Ser Val Ala Glu His Leu Ala His
 545 550 555 560
 Ser Leu Gln Asp Cys Ser Asn Ile Gln Glu Ile Phe Gln Thr Leu Tyr
 565 570 575
 Ser His Gly Ser Ala Ile Ser Glu Ser Lys Ile Arg Glu Phe Glu Val
 580 585 590
 Glu Thr Glu Arg Leu Asn Ser Arg Ile Glu His Leu Lys Ser Gln Asn
 595 600 605
 Asp Leu Leu Thr Ile Thr Leu Glu Glu Cys Lys Ser Asn Ala Glu Arg
 610 615 620
 Met Ser Met Leu Val Gly Lys Tyr Glu Ser Asn Ala Thr Ala Leu Arg
 625 630 635 640
 Leu Ala Leu Gln Tyr Ser Glu Gln Cys Ile Glu Ala Tyr Glu Leu Leu
 645 650 655
 Leu Ala Leu Ala Glu Ser Glu Gln Ser Leu Ile Leu Gly Gln Phe Arg
 660 665 670
 Ala Ala Gly Val Gly Ser Ser Pro Gly Asp Gln Ser Gly Asp Glu Asn
 675 680 685
 Ile Thr Gln Met Leu Lys Arg Ala His Asp Cys Arg Lys Thr Ala Glu
 690 695 700
 Asn Ala Ala Lys Ala Leu Leu Met Lys Leu Asp Gly Ser Cys Gly Gly
 705 710 715 720
 Ala Phe Ala Val Ala Gly Cys Ser Val Gln Pro Trp Glu Ser Leu Ser
 725 730 735
 Ser Asn Ser His Thr Ser Thr Thr Ser Ser Thr Ala Ser Ser Cys Asp
 740 745 750
 Thr Glu Phe Thr Lys Glu Asp Glu Gln Arg Leu Lys Asp Tyr Ile Gln

755	760	765
Gln Leu Lys Asn Asp Arg Ala Ala Val Lys Leu Thr Met Leu Glu Leu		
770	775	780
Glu Ser Ile His Ile Asp Pro Leu Ser Tyr Asp Val Lys Pro Arg Gly		
785	790	795
Asp Ser Gln Arg Leu Asp Leu Glu Asn Ala Val Leu Met Gln Glu Leu		
805	810	815
Met Ala Met Lys Glu Glu Met Ala Glu Leu Lys Ala Gln Leu Tyr Leu		
820	825	830
Leu Glu Lys Glu Lys Lys Ala Leu Glu Leu Lys Leu Ser Thr Arg Glu		
835	840	845
Ala Gln Glu Gln Ala Tyr Leu Val His Ile Glu His Leu Lys Ser Glu		
850	855	860
Val Glu Glu Gln Lys Glu Gln Arg Met Arg Ser Leu Ser Ser Thr Ser		
865	870	875
Ser Gly Ser Lys Asp Lys Pro Gly Lys Glu Cys Ala Asp Ala Ala Ser		
885	890	895
Pro Ala Leu Ser Leu Ala Glu Leu Arg Thr Thr Cys Ser Glu Asn Glu		
900	905	910
Leu Ala Ala Glu Phe Thr Asn Ala Ile Arg Arg Glu Lys Lys Leu Lys		
915	920	925
Ala Arg Val Gln Glu Leu Val Ser Ala Leu Glu Arg Leu Thr Lys Ser		
930	935	940
Ser Glu Ile Arg His Gln Gln Ser Ala Glu Phe Val Asn Asp Leu Lys		
945	950	955
Arg Ala Asn Ser Asn Leu Val Ala Ala Tyr Glu Lys		
965	970	

<210> 3783

<211> 570

<212> PRT

<213> Homo sapiens

<400> 3783

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Met Ala Phe Arg Gly Trp Arg Pro Pro Pro Pro Pro Leu Leu Leu Leu
  1           5           10           15
Leu Leu Trp Val Thr Gly Gln Ala Ala Pro Val Ala Gly Leu Gly Ser
           20           25           30
Asp Ala Glu Leu Gln Ile Glu Arg Arg Phe Val Pro Asp Glu Cys Pro
           35           40           45
Arg Thr Val Arg Ser Gly Asp Phe Val Arg Tyr His Tyr Val Gly Thr
           50           55           60
Phe Pro Asp Gly Gln Lys Phe Asp Ser Ser Tyr Asp Arg Asp Ser Thr
           65           70           75           80
Phe Asn Val Phe Val Gly Lys Gly Gln Leu Ile Thr Gly Met Asp Gln
           85           90           95
Ala Leu Val Gly Met Cys Val Asn Glu Arg Arg Phe Val Lys Ile Pro
           100           105           110
Pro Lys Leu Ala Tyr Gly Asn Glu Gly Val Ser Gly Val Ile Pro Pro
           115           120           125
Asn Ser Val Leu His Phe Asp Val Leu Leu Met Asp Ile Trp Asn Ser
           130           135           140
Glu Asp Gln Val Gln Ile His Thr Tyr Phe Lys Pro Pro Ser Cys Pro
           145           150           155           160
Arg Thr Ile Gln Val Ser Asp Phe Val Arg Tyr His Tyr Asn Gly Thr
           165           170           175
Phe Leu Asp Gly Thr Leu Phe Asp Ser Ser His Asn Arg Met Lys Thr

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180 185 190
Tyr Asp Thr Tyr Val Gly Ile Gly Trp Leu Ile Pro Gly Met Asp Lys
195 200 205
Gly Leu Leu Gly Met Cys Val Gly Glu Lys Arg Ile Ile Thr Ile Pro
210 215 220
Pro Phe Leu Ala Tyr Gly Glu Asp Gly Asp Gly Lys Asp Ile Pro Gly
225 230 235 240
Gln Ala Ser Leu Val Phe Asp Val Ala Leu Leu Asp Leu His Asn Pro
245 250 255
Lys Asp Ser Ile Ser Ile Glu Asn Lys Val Val Pro Glu Asn Cys Glu
260 265 270
Arg Ile Ser Gln Ser Gly Asp Phe Leu Arg Tyr His Tyr Asn Gly Thr
275 280 285
Leu Leu Asp Gly Thr Leu Phe Asp Ser Ser Tyr Ser Arg Asn Arg Thr
290 295 300
Phe Asp Thr Tyr Ile Gly Gln Gly Tyr Val Ile Pro Gly Met Asp Glu
305 310 315 320
Gly Leu Leu Gly Val Cys Ile Gly Glu Lys Arg Arg Ile Val Val Pro
325 330 335
Pro His Leu Gly Tyr Gly Glu Glu Gly Arg Gly Asn Ile Pro Gly Ser
340 345 350
Ala Val Leu Val Phe Asp Ile His Val Ile Asp Phe His Asn Pro Ser
355 360 365
Asp Ser Ile Ser Ile Thr Ser His Tyr Lys Pro Pro Asp Cys Ser Val
370 375 380
Leu Ser Lys Lys Gly Asp Tyr Leu Lys Tyr His Tyr Asn Ala Ser Leu
385 390 395 400
Leu Asp Gly Thr Leu Leu Asp Ser Thr Trp Asn Leu Gly Lys Thr Tyr
405 410 415

Asn Ile Val Leu Gly Ser Gly Gln Val Val Leu Gly Met Asp Met Gly
420 425 430
Leu Arg Glu Met Cys Val Gly Glu Lys Arg Thr Val Ile Ile Pro Pro
435 440 445
His Leu Gly Tyr Gly Glu Ala Gly Val Asp Gly Glu Val Pro Gly Ser
450 455 460
Ala Val Leu Val Phe Asp Ile Glu Leu Leu Glu Leu Val Ala Gly Leu
465 470 475 480
Pro Glu Gly Tyr Met Phe Ile Trp Asn Gly Glu Val Ser Pro Asn Leu
485 490 495
Phe Glu Glu Ile Asp Lys Asp Gly Asn Gly Glu Val Leu Leu Glu Glu
500 505 510
Phe Ser Glu Tyr Ile His Ala Gln Val Ala Ser Gly Lys Gly Lys Leu
515 520 525
Ala Pro Gly Phe Asp Ala Glu Leu Ile Val Lys Asn Met Phe Thr Asn
530 535 540
Gln Asp Arg Asn Gly Asp Gly Lys Val Thr Ala Glu Glu Phe Lys Leu
545 550 555 560
Lys Asp Gln Glu Ala Lys His Asp Glu Leu
565 570

<210> 3784

<211> 302

<212> PRT

<213> Homo sapiens

<400> 3784

Met Pro Cys Arg Leu Leu His Gln Arg Glu Thr Arg Ser Gly Gly Pro

1	5	10	15
Arg Gly Pro Arg His Ser Ala Pro Thr Gly Pro Gly Trp His Asn Ala			
20	25	30	
Pro Thr Leu Gln Ser Trp Glu Glu Ser His Ala Pro Ser Arg Asp Pro			
35	40	45	
Arg Asp His Gln Gly Ser Val Glu Asp Thr Ser Leu Gly Gly Asp Ala			
50	55	60	
Pro Ala Asp Gly Val Ser Pro Ser Val Pro Pro Leu Gln Gly Leu Gly			
65	70	75	80
Lys Ala Ala Gly Pro Gly Gly Thr Gly Gln Ala Glu Cys Gln Val Val			
85	90	95	
Val Ala Thr His Arg Ala Asn Leu Lys Pro Trp Asp Gly Arg Ala Ala			
100	105	110	
Pro Leu Gly Lys Arg Thr Glu Glu Gly Arg Leu Ser Thr Ser Ser Cys			
115	120	125	
Ala Ser Val Ser Arg Asn Lys Pro Asp Ser Val Pro Gln Gly Asp Pro			
130	135	140	
Val Trp Pro Pro Glu Ser Thr Gly Pro Ala Leu Cys Ala Gly Glu Glu			
145	150	155	160
Thr Glu Pro Gln Ser Ser Glu Gly Leu Ala Trp Gly Pro Trp Ala Gln			
165	170	175	
Pro Trp Ala Pro Ser Leu Cys Pro Ser Gln Thr Gly Thr Ala Ser Thr			
180	185	190	
Ala Ser Pro Gln Arg Ala Ser Arg Leu Ala Leu Gln Gly Pro Pro Gly			
195	200	205	
Thr Ile Leu Ser Leu Ser Ser Ser Ser Pro Cys Leu Pro Pro Ser His			
210	215	220	
Cys Asp Pro Gly Ala Ala Ser Ser Trp Ala Gly Leu Gln Ser Leu Lys			
225	230	235	240

Leu Leu Leu Gln Val Ser Phe Gln Gly Ala Ala Asp Gly Cys Ser Leu
 245 250 255
 Arg Asp Ala Asn Thr Asn Arg Lys Gly Pro Met His Gly Ser Asp Phe
 260 265 270
 Pro Pro Arg Leu Cys Leu His Ser Met Ser Leu Trp Gly Ser Trp Gly
 275 280 285
 Ser Arg Pro Pro Ser Pro Ala His Ser Arg Glu Val Ala Ser
 290 295 300

<210> 3785

<211> 113

<212> PRT

<213> Homo sapiens

<400> 3785

Met Leu Phe Ser Asn Tyr Ala Phe Asn Gly Ile Leu Phe Tyr Phe Phe
 1 5 10 15
 Ile Phe Asn Ser Phe Phe Ile Ser Leu Gly Ile Leu Lys Leu Tyr Leu
 20 25 30
 Ile Leu Phe Phe Leu Ser Arg Val Glu Asn Ser Cys Phe Lys Ser Pro
 35 40 45
 Gln Asn Lys Ile Pro Phe Pro Asp Ile Val Glu Arg Thr Gly Ala Trp
 50 55 60
 Met Phe Gly Trp Gln Gly Lys Gly Lys Ser Pro Gly Ala Thr Asp Arg
 65 70 75 80
 Asn Ile Gln Pro Asn Pro Pro Val Phe Asp Ser Thr Thr His Cys Gly
 85 90 95
 Ala Phe Leu Lys Thr Leu Glu Leu Gln Val Ser Glu Glu Tyr Phe Arg

100 105 110
Gln

<210> 3786

<211> 792

<212> PRT

<213> Homo sapiens

<400> 3786

Met Arg Leu Val Asn Glu Met Tyr Gln Thr Ser Leu Arg Gln Phe Leu
1 5 10 15
Gly Leu Phe Asp Leu Ser Leu Ala Arg Ser Val Lys Ser Pro Ile Thr
20 25 30
Ser Lys Arg Ile Ala Asn Ile Ile Glu His Met Thr Tyr Glu Val Tyr
35 40 45
Lys Tyr Ala Ala Arg Gly Leu Tyr Glu Glu His Lys Phe Leu Phe Thr
50 55 60
Leu Leu Leu Thr Leu Lys Ile Asp Ile Gln Arg Asn Arg Val Lys His
65 70 75 80
Glu Glu Phe Leu Thr Leu Ile Lys Gly Gly Ala Ser Leu Asp Leu Lys
85 90 95
Ala Cys Pro Pro Lys Pro Ser Lys Trp Ile Leu Asp Ile Thr Trp Leu
100 105 110
Asn Leu Val Glu Leu Ser Lys Leu Arg Gln Phe Ser Asp Val Leu Asp
115 120 125
Gln Ile Ser Arg Asn Glu Lys Met Trp Lys Ile Trp Phe Asp Lys Glu
130 135 140

Asn Pro Glu Glu Glu Pro Leu Pro Asn Ala Tyr Asp Lys Ser Leu Asp
145 150 155 160
Cys Phe Arg Arg Leu Leu Leu Ile Arg Ser Trp Cys Pro Asp Arg Thr
165 170 175
Ile Ala Gln Ala Arg Lys Tyr Ile Val Asp Ser Met Gly Glu Lys Tyr
180 185 190
Ala Glu Gly Val Ile Leu Asp Leu Glu Lys Thr Trp Glu Glu Ser Asp
195 200 205
Pro Arg Thr Pro Leu Ile Cys Leu Leu Ser Met Gly Ser Asp Pro Thr
210 215 220
Asp Ser Ile Ile Ala Leu Gly Lys Arg Leu Lys Ile Glu Thr Arg Tyr
225 230 235 240
Val Ser Met Gly Gln Gly Gln Glu Val His Ala Arg Lys Leu Leu Gln
245 250 255
Gln Thr Met Ala Asn Gly Gly Trp Ala Leu Leu Gln Asn Cys His Leu
260 265 270
Gly Leu Asp Phe Met Asp Glu Leu Met Asp Ile Ile Ile Glu Thr Glu
275 280 285
Leu Val His Asp Ala Phe Arg Leu Trp Met Thr Thr Glu Val His Lys
290 295 300
Gln Phe Pro Ile Thr Leu Leu Gln Met Ser Ile Lys Phe Ala Asn Asp
305 310 315 320
Pro Pro Gln Gly Leu Arg Ala Gly Leu Lys Arg Thr Tyr Ser Gly Val
325 330 335
Ser Gln Asp Leu Leu Asp Val Ser Ser Gly Ser Gln Trp Lys Pro Met
340 345 350
Leu Tyr Ala Val Ala Phe Leu His Ser Thr Val Gln Glu Arg Arg Lys
355 360 365
Phe Gly Ala Leu Gly Trp Asn Ile Pro Tyr Glu Phe Asn Gln Ala Asp

370 375 380
Phe Asn Ala Thr Val Gln Phe Ile Gln Asn His Leu Asp Asp Met Asp
385 390 395 400
Val Lys Lys Gly Val Ser Trp Thr Thr Ile Arg Tyr Met Ile Gly Glu
405 410 415
Ile Gln Tyr Gly Gly Arg Val Thr Asp Asp Tyr Asp Lys Arg Leu Leu
420 425 430
Asn Thr Phe Ala Lys Val Trp Phe Ser Glu Asn Met Phe Gly Pro Asp
435 440 445
Phe Ser Phe Tyr Gln Gly Tyr Asn Ile Pro Lys Cys Ser Thr Val Asp
450 455 460
Asn Tyr Leu Gln Tyr Ile Gln Ser Leu Pro Ala Tyr Asp Ser Pro Glu
465 470 475 480
Val Phe Gly Leu His Pro Asn Ala Asp Ile Thr Tyr Gln Ser Lys Leu
485 490 495
Ala Lys Asp Val Leu Asp Thr Ile Leu Gly Ile Gln Pro Lys Asp Thr
500 505 510
Ser Gly Gly Gly Asp Glu Thr Arg Glu Ala Val Val Ala Arg Leu Ala
515 520 525
Asp Asp Met Leu Glu Lys Leu Pro Pro Asp Tyr Val Pro Phe Glu Val
530 535 540
Lys Glu Arg Leu Gln Lys Met Gly Pro Phe Gln Pro Met Asn Ile Phe
545 550 555 560
Leu Arg Gln Glu Ile Asp Arg Met Gln Arg Val Leu Ser Leu Val Arg
565 570 575
Ser Thr Leu Thr Glu Leu Lys Leu Ala Ile Asp Gly Thr Ile Ile Met
580 585 590
Ser Glu Asn Leu Arg Asp Ala Leu Asp Cys Met Phe Asp Ala Arg Ile
595 600 605

Pro Ala Trp Trp Lys Lys Ala Ser Trp Ile Ser Ser Thr Leu Gly Phe
610 615 620
Trp Phe Thr Glu Leu Ile Glu Arg Asn Ser Gln Phe Thr Ser Trp Val
625 630 635 640
Phe Asn Gly Arg Pro His Cys Phe Trp Met Thr Gly Phe Phe Asn Pro
645 650 655
Gln Gly Phe Leu Thr Ala Met Arg Gln Glu Ile Thr Arg Ala Asn Lys
660 665 670
Gly Trp Ala Leu Asp Asn Met Val Leu Cys Asn Glu Val Thr Lys Trp
675 680 685
Met Lys Asp Asp Ile Ser Ala Pro Pro Thr Glu Gly Val Tyr Val Tyr
690 695 700
Gly Leu Tyr Leu Glu Gly Ala Gly Trp Asp Lys Arg Asn Met Lys Leu
705 710 715 720
Ile Glu Ser Lys Pro Lys Val Leu Phe Glu Leu Met Pro Val Ile Arg
725 730 735
Ile Tyr Ala Glu Asn Asn Thr Leu Arg Asp Pro Arg Phe Tyr Ser Cys
740 745 750
Pro Ile Tyr Lys Lys Pro Val Arg Thr Asp Leu Asn Tyr Ile Ala Ala
755 760 765
Val Asp Leu Arg Thr Ala Gln Thr Pro Glu His Trp Val Leu Arg Gly
770 775 780
Val Ala Leu Leu Cys Asp Val Lys
785 790

<210> 3787

<211> 230

<212> PRT

<213> Homo sapiens

<400> 3787

Met Glu Gly Gly Pro Ala Val Cys Cys Gln Asp Pro Arg Ala Glu Leu
1 5 10 15
Val Glu Arg Val Ala Ala Ile Asp Val Thr His Leu Glu Glu Ala Asp
20 25 30
Gly Gly Pro Glu Pro Thr Arg Asn Gly Val Asp Pro Pro Pro Arg Ala
35 40 45
Arg Ala Ala Ser Val Ile Pro Gly Ser Thr Ser Arg Leu Leu Pro Ala
50 55 60
Arg Pro Ser Leu Ser Ala Arg Lys Leu Ser Leu Gln Glu Arg Pro Ala
65 70 75 80
Gly Ser Tyr Leu Glu Ala Gln Ala Gly Pro Tyr Ala Thr Gly Pro Ala
85 90 95
Ser His Ile Ser Pro Arg Ala Trp Arg Arg Pro Thr Ile Glu Ser His
100 105 110
His Val Ala Ile Ser Asp Ala Glu Asp Cys Val Gln Leu Asn Gln Tyr
115 120 125
Lys Leu Gln Ser Glu Ile Gly Lys Gly Ala Tyr Gly Val Val Arg Leu
130 135 140
Ala Tyr Asn Glu Ser Glu Asp Arg His Tyr Ala Met Lys Val Leu Ser
145 150 155 160
Lys Lys Lys Leu Leu Lys Gln Tyr Gly Phe Pro Arg Arg Pro Pro Pro
165 170 175
Arg Gly Ser Gln Ala Ala Gln Gly Gly Pro Ala Lys Gln Leu Leu Pro
180 185 190
Leu Glu Arg Val Tyr Gln Glu Ile Ala Ile Leu Lys Lys Leu Asp His
195 200 205

Val Asn Val Val Lys Leu Ile Glu Val Leu Asp Asp Pro Ala Glu Asp
210 215 220
Asn Leu Tyr Leu Gly Glu
225 230

<210> 3788

<211> 244

<212> PRT

<213> Homo sapiens

<400> 3788

Met Phe Tyr Pro Ile Ile Met Ala Met Pro Ile Gln Lys Ala Lys Gln
1 5 10 15
Asn Leu Phe Gly Gln Asn Arg Asn Phe Ser Asn Gly His Val Val Cys
20 25 30
Glu Lys Lys Gln Gln Leu Glu Leu Asp Ser Ile Val Glu Glu Thr Ile
35 40 45
Thr Gly Asp Tyr Ala Leu Ile Ile Asn Gly His Ser Leu Ala His Ala
50 55 60
Leu Glu Ser Asp Val Lys Asn Asp Leu Leu Glu Leu Ala Cys Met Cys
65 70 75 80
Lys Thr Val Ile Cys Cys Arg Val Thr Pro Leu Gln Lys Ala Gln Val
85 90 95
Val Glu Leu Val Lys Lys Tyr Arg Asn Ala Val Thr Leu Ala Ile Gly
100 105 110
Asp Gly Ala Asn Asp Val Ser Met Ile Lys Ser Ala His Ile Gly Val
115 120 125
Gly Ile Ser Gly Gln Glu Gly Leu Gln Ala Val Leu Ala Ser Asp Tyr

130 135 140
 Ser Phe Ala Gln Phe Arg Tyr Leu Gln Arg Leu Leu Leu Val His Gly
 145 150 155 160
 Arg Trp Ser Tyr Phe Arg Met Cys Lys Phe Leu Cys Tyr Phe Phe Tyr
 165 170 175
 Lys Asn Phe Ala Phe Thr Leu Val His Phe Trp Phe Gly Phe Phe Cys
 180 185 190
 Gly Phe Ser Ala Gln Val Gly Lys Ser Met Phe Phe Phe Val Cys Leu
 195 200 205
 Phe Val Cys Phe Cys Met Ile Leu Gln Met Thr Leu Leu His Ser Ser
 210 215 220
 Leu Leu Ile Asn Ser Glu His Phe Leu Met Ala Asp Ser Ser Asn Ser
 225 230 235 240
 Ile Thr Ile Met

<210> 3789

<211> 209

<212> PRT

<213> Homo sapiens

<400> 3789

Met Ser Ala Arg Arg Pro Leu Leu Ala Val Ala Thr His Val His Phe
 1 5 10 15
 Asp His Ser Gly Gly Leu Tyr Gln Phe Asp Arg Val Ala Val His His
 20 25 30
 Ala Glu Ala Glu Ala Leu Ala Arg Gly Asp Asn Phe Glu Thr Val Thr
 35 40 45

Trp Leu Ser Asp Ser Glu Val Val Arg Ala Pro Ser Pro Gly Trp Arg
 50 55 60
 Ala Arg Gln Phe Arg Val Gln Ala Val Gln Pro Thr Leu Ile Leu Gln
 65 70 75 80
 Asp Gly Asp Val Ile Asn Leu Gly Asp Arg Gln Leu Thr Val Met His
 85 90 95
 Met Pro Gly His Ser Arg Gly Ser Ile Cys Leu His Asp Lys Asp Arg
 100 105 110
 Lys Ile Leu Phe Ser Gly Asp Val Val Tyr Asp Gly Ser Leu Ile Asp
 115 120 125
 Trp Leu Pro Tyr Ser Arg Ile Ser Asp Tyr Val Gly Thr Cys Glu Arg
 130 135 140
 Leu Ile Glu Leu Val Asp Arg Gly Leu Val Glu Lys Val Leu Pro Gly
 145 150 155 160
 His Phe Asn Thr Phe Gly Ala Glu Arg Leu Phe Arg Leu Ala Ser Asn
 165 170 175
 Tyr Ile Ser Lys Ala Gly Ile Cys His Lys Val Ser Thr Phe Ala Met
 180 185 190
 Arg Ser Leu Ala Ser Leu Ala Leu Arg Val Thr Asn Ser Arg Thr Ser
 195 200 205
 Pro

<210> 3790

<211> 320

<212> PRT

<213> Homo sapiens

<400> 3790

Met Glu Gly Tyr Lys Phe Asp Leu Arg Ile Tyr Ile Leu Val Thr Ser

1 5 10 15

Cys Asp Pro Leu Lys Ile Phe Leu Tyr His Asp Gly Leu Val Arg Met

20 25 30

Gly Thr Glu Lys Tyr Ile Pro Pro Asn Glu Ser Asn Leu Thr Gln Leu

35 40 45

Tyr Met His Leu Thr Asn Tyr Ser Val Asn Glu His Asn Glu His Phe

50 55 60

Glu Arg Asp Glu Thr Glu Asn Lys Gly Ser Lys Arg Ser Ile Lys Trp

65 70 75 80

Phe Thr Glu Phe Leu Gln Ala Asn Gln His Asp Val Ala Lys Phe Trp

85 90 95

Ser Asp Ile Ser Glu Leu Val Val Lys Thr Leu Ile Val Ala Glu Pro

100 105 110

His Val Leu His Ala Tyr Arg Met Cys Arg Pro Gly Gln Pro Pro Gly

115 120 125

Ser Glu Ser Val Cys Phe Glu Val Leu Gly Phe Asp Ile Leu Leu Asp

130 135 140

Arg Lys Leu Lys Pro Trp Leu Leu Glu Ile Asn Arg Ala Pro Ser Phe

145 150 155 160

Gly Thr Asp Gln Lys Ile Asp Tyr Asp Val Lys Arg Gly Val Leu Leu

165 170 175

Asn Ala Leu Lys Leu Leu Asn Ile Arg Thr Ser Asp Lys Arg Arg Asn

180 185 190

Leu Ala Lys Gln Lys Ala Glu Ala Gln Arg Arg Leu Tyr Gly Gln Asn

195 200 205

Ser Ile Lys Arg Leu Leu Pro Gly Ser Ser Asp Trp Glu Gln Gln Arg

210 215 220

<210> 3791

<211> 130

<212> PRT

<213> Homo sapiens

<400> 3791

出証特 2 0 0 4 - 3 0 5 9 6 6 1

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Pro Phe Leu Tyr Lys Tyr Gln Gln Gln Leu Ser Arg Ala Met Arg Met
 100 105 110
 Tyr Glu Arg Arg Ile Glu Trp Leu Ser Leu Ala Ser Arg Arg Ile Trp
 115 120 125
 Gly Thr Val Cys Glu Lys Arg Val Val Val Leu Leu Asp Ile Ser Ala
 130 135 140
 Thr Asn Ser Met Tyr Ile Ile His Ile Gln His Ser Leu Arg Leu Leu
 145 150 155 160
 Leu Glu Glu Gln Leu Ser Asn Lys Asp Cys Phe Asn Leu Ile Ala Phe
 165 170 175
 Gly Ser Thr Ile Glu Ser Trp Arg Pro Glu Met Val Pro Val Ser His
 180 185 190
 Asn Asn Leu Gln Ser Ala Trp Arg Trp Ala Leu Asn Leu Arg Cys Arg
 195 200 205
 Gly Ser Arg Asn Val Leu Ser Ala Leu Arg Lys Ala Val Glu Val Asp
 210 215 220
 Phe Lys Asp Lys Asp Lys His Gln Ser Gln Gly Ile Tyr Leu Phe Thr
 225 230 235 240
 Gly Gly Ile Pro Asp Gln Asp Met Pro Thr Leu Ser Ala Tyr Met Ala
 245 250 255
 Glu Ala Cys Gly Gly Cys Asp Leu Gln Leu Asn Val Cys Leu Phe Tyr
 260 265 270
 Val Gly Glu Pro Lys Met Asp Thr Ile Pro Pro Ala Arg Tyr Ala Ser
 275 280 285
 His Thr Asp Thr Ala Ala Ala Tyr Lys Glu Val Thr Arg Ala Ala Gly
 290 295 300
 Gly Arg Phe His Trp Phe Gly Asp Thr Gly Ile Tyr Glu Ser Asp Asp
 305 310 315 320
 Ile Asn Ser Ile Met Ser Glu Met Glu Lys Ala Leu Asn Tyr Ser Gln

	325		330		335
Lys Cys Ala Phe Leu Met Ala Ser Leu Lys Asn His Ser Gly Lys Val					
	340		345		350
Leu Gly Ser Ser Ala Leu Pro Lys Glu Lys Pro Lys Thr Leu Gln Leu					
	355		360		365
Arg Ser Gln Pro Lys Lys Leu Cys Pro Pro Arg Pro Thr Val Pro Leu					
	370		375		380
Gly Ala Arg Met Ser Ile Lys Asp Asp Pro Asp Arg Glu Lys Ser Pro					
385		390		395	400
Pro Leu Lys Ser Leu Lys Trp Arg Pro Leu Ser Ser Arg Val Gly Ile					
	405		410		415
Ser Pro Ala Ala Ala Gln Pro Thr Lys Glu Gly Met Met Glu Leu Arg					
	420		425		430
Arg Lys Thr Lys Ser Arg Glu Ala Glu Thr Ser Leu Leu Leu Phe Tyr					
	435		440		445
Thr Glu Lys Gly Asn Asp Val Gly Ser Val Tyr Lys Lys Tyr Pro Gln					
	450		455		460
Gly Arg Gly Leu Arg Arg Thr Ser Ser Ser Ile Asp Leu Pro Arg Lys					
465		470		475	480
Asp Thr Val Cys Ser Ser Gln Glu Trp Val Ala Lys Tyr Gly Leu Lys					
	485		490		495
Lys Leu Lys Leu Glu Ile Ser Arg Cys Met Gly Pro Asn Cys Thr His					
	500		505		510
Gln Lys Ser Gly Gln Arg Ser Ala Ser Ala Lys His Cys Ser Ile Phe					
	515		520		525
Pro Ser Val Glu Ile His Gly Val Val Arg His Ile Gln Trp Thr Pro					
	530		535		540
Arg Glu Met Glu Val Tyr Ile Arg His Leu Glu Lys Val Leu Arg Arg					
545		550		555	560

Tyr Val Gln Arg Leu Gln Trp Leu Leu Ser Gly Ser Arg Arg Leu Phe
565 570 575
Gly Thr Val Leu Glu Ser Lys Val Cys Ile Leu Leu Asp Thr Ser Gly
580 585 590
Ser Met Gly Pro Tyr Leu Gln Gln Val Lys Thr Glu Leu Val Leu Leu
595 600 605
Ile Trp Glu Gln Leu Arg Lys Cys Cys Asp Ser Phe Asn Leu Leu Ser
610 615 620
Phe Ala Glu Ser Leu Gln Ser Trp Gln Asp Thr Leu Val Glu Thr Thr
625 630 635 640
Asp Ala Ala Cys His Glu Ala Met Gln Trp Val Thr His Leu Gln Ala
645 650 655
Gln Gly Ser Thr Ser Ile Leu Gln Ala Leu Leu Lys Ala Phe Ser Phe
660 665 670
His Asp Leu Glu Gly Leu Tyr Leu Leu Thr Asp Gly Lys Pro Asp Thr
675 680 685
Ser Cys Ser Leu Val Leu Asn Glu Val Gln Lys Leu Arg Glu Lys Arg
690 695 700
Asp Val Lys Val His Thr Ile Ser Leu Asn Cys Ser Asp Arg Ala Ala
705 710 715 720
Val Glu Phe Leu Arg Lys Leu Ala Ser Phe Thr Gly Gly Arg Tyr His
725 730 735
Cys Pro Val Gly Glu Asp Thr Leu Ser Lys Ile His Ser Leu Leu Thr
740 745 750
Lys Gly Phe Ile Asn Glu Lys Asp Pro Thr Leu Pro Pro Phe Glu Gly
755 760 765
Asp Asp Leu Arg Ile Leu Ala Gln Glu Ile Thr Lys Ala Arg Ser Phe
770 775 780
Leu Trp Gln Ala Gln Ser Phe Arg Ser Gln Leu Gln Lys Lys Asn Asp

785 790 795 800
Ala Glu Pro Lys Val Thr Leu Ser
805

<210> 3793

<211> 625

<212> PRT

<213> Homo sapiens

<400> 3793

Met Arg Asn Gly Ser Gly Asn Trp Leu Ala Asp Gln Ile Arg Arg Asn
1 5 10 15
Arg Val Val Glu Gly Pro Gly Thr Pro Ser Lys Gly Gln Arg Trp Cys
20 25 30
Thr Leu His Thr Glu Phe Leu Trp Tyr Asp Gly Ser Leu Lys Ser Val
35 40 45
Pro Pro Pro Asp Phe Gly Thr Pro Thr Leu His Tyr Phe Glu Asp Trp
50 55 60
Gly Val Val Thr Tyr Gly Ser Ala Leu Pro Ala Glu Ile Asn Arg Ser
65 70 75 80
Phe Leu Ser Phe Lys Ser Gly Lys Leu Gly Gly Arg Ala Ile Tyr Asp
85 90 95
Ile Val His Arg Asn Lys Tyr Lys Asp Trp Ile Lys Gly Trp Arg Asn
100 105 110
Phe Asn Ala Gly His Glu His Pro Asp Gln Asn Ser Phe Thr Phe Ala
115 120 125
Pro Asn Gly Val Pro Phe Ile Thr Glu Ala Leu Tyr Gly Pro Lys Tyr
130 135 140

Thr Phe Phe Asn Asn Val Leu Met Phe Ser Pro Ala Val Ser Lys Ser
 145 150 155 160
 Cys Phe Ser Pro Trp Val Gly Gln Val Thr Glu Asp Cys Ser Ser Lys
 165 170 175
 Trp Ser Lys Tyr Lys His Asp Leu Ala Ala Ser Cys Gln Gly Arg Val
 180 185 190
 Val Ala Ala Glu Glu Lys Asn Gly Val Val Phe Ile Arg Gly Glu Gly
 195 200 205
 Val Gly Ala Tyr Asn Pro Gln Leu Asn Leu Lys Asn Val Gln Arg Asn
 210 215 220
 Leu Ile Leu Leu His Pro Gln Leu Leu Leu Leu Val Asp Gln Ile His
 225 230 235 240
 Leu Gly Glu Glu Ser Pro Leu Glu Thr Ala Ala Ser Phe Phe His Asn
 245 250 255
 Val Asp Val Pro Phe Glu Glu Thr Val Val Asp Gly Val His Gly Ala
 260 265 270
 Phe Ile Arg Gln Arg Asp Gly Leu Tyr Lys Met Tyr Trp Met Asp Asp
 275 280 285
 Thr Gly Tyr Ser Glu Lys Ala Thr Phe Ala Ser Val Thr Tyr Pro Arg
 290 295 300
 Gly Tyr Pro Tyr Asn Gly Thr Asn Tyr Val Asn Val Thr Met His Leu
 305 310 315 320
 Arg Ser Pro Ile Thr Arg Ala Ala Tyr Leu Phe Ile Gly Pro Ser Ile
 325 330 335
 Asp Val Gln Ser Phe Thr Val His Gly Asp Ser Gln Gln Leu Asp Val
 340 345 350
 Phe Ile Ala Thr Ser Lys His Ala Tyr Ala Thr Tyr Leu Trp Thr Gly
 355 360 365
 Glu Ala Thr Gly Gln Ser Ala Phe Ala Gln Val Ile Ala Asp Arg His

370 375 380
Lys Ile Leu Phe Asp Arg Asn Ser Ala Ile Lys Ser Ser Ile Val Pro
385 390 395 400
Glu Val Lys Asp Tyr Ala Ala Ile Val Glu Gln Asn Leu Gln His Phe
405 410 415
Lys Pro Val Phe Gln Leu Leu Glu Lys Gln Ile Leu Ser Arg Val Arg
420 425 430
Asn Thr Ala Ser Phe Arg Lys Thr Ala Glu Arg Leu Leu Arg Phe Ser
435 440 445
Asp Lys Arg Gln Thr Glu Glu Ala Ile Asp Arg Ile Phe Ala Ile Ser
450 455 460
Gln Gln Gln Gln Gln Gln Ser Lys Ser Lys Lys Asn Arg Arg Ala Gly
465 470 475 480
Lys Arg Tyr Lys Phe Val Asp Ala Val Pro Asp Ile Phe Ala Gln Ile
485 490 495
Glu Val Asn Glu Lys Lys Ile Arg Gln Lys Ala Gln Ile Leu Ala Gln
500 505 510
Lys Glu Leu Pro Ile Asp Glu Asp Glu Glu Met Lys Asp Leu Leu Asp
515 520 525
Phe Ala Asp Val Thr Tyr Glu Lys His Lys Asn Gly Gly Leu Ile Lys
530 535 540
Gly Arg Phe Gly Gln Ala Arg Met Val Thr Thr Thr His Ser Arg Ala
545 550 555 560
Pro Ser Leu Ser Ala Ser Tyr Thr Arg Leu Phe Leu Ile Leu Asn Ile
565 570 575
Ala Ile Phe Phe Val Met Leu Ala Met Gln Leu Thr Tyr Phe Gln Arg
580 585 590
Ala Gln Ser Leu His Gly Gln Arg Cys Leu Tyr Ala Val Leu Leu Ile
595 600 605

Asp Ser Cys Ile Leu Leu Trp Leu Tyr Ser Ser Cys Ser Gln Ser Gln

610

615

620

Cys

625

<210> 3794

<211> 252

<212> PRT

<213> Homo sapiens

<400> 3794

Met Ala Gly Leu His Ser Ser Asp Lys Val Gly Pro Lys Phe Ser Ile

1

5

10

15

Pro Ser Pro Thr Phe Ser Lys Ser Ser Ser Ala Ile Ser Glu Val Thr

20

25

30

Gln Pro Pro Ser Tyr Glu Asp Ala Val Lys Gln Gln Met Thr Arg Ser

35

40

45

Gln Gln Met Asp Glu Leu Leu Asp Val Leu Ile Glu Ser Gly Glu Met

50

55

60

Pro Ala Asp Ala Arg Glu Asp His Ser Cys Leu Gln Lys Val Pro Lys

65

70

75

80

Ile Pro Arg Ser Ser Arg Ser Pro Thr Ala Val Leu Thr Lys Pro Ser

85

90

95

Ala Ser Phe Glu Gln Ala Ser Ser Gly Ser Gln Ile Pro Phe Asp Pro

100

105

110

Tyr Ala Thr Asp Ser Asp Glu His Leu Glu Val Leu Leu Asn Ser Gln

115

120

125

Ser Pro Leu Gly Lys Met Ser Asp Val Thr Leu Leu Lys Ile Gly Ser

130	135	140	
Glu Glu Pro His Phe Asp Gly Ile Met Asp Gly Phe Ser Gly Lys Ala			
145	150	155	160
Ala Glu Asp Leu Phe Asn Ala His Glu Ile Leu Pro Gly Pro Leu Ser			
	165	170	175
Pro Met Gln Thr Gln Phe Ser Pro Ser Ser Val Asp Ser Asn Gly Leu			
	180	185	190
Gln Leu Ser Phe Thr Glu Ser Pro Trp Glu Thr Met Glu Trp Leu Asp			
	195	200	205
Leu Thr Pro Pro Asn Ser Thr Pro Gly Phe Ser Ala Leu Thr Thr Ser			
	210	215	220
Ser Pro Ser Ile Phe Asn Ile Asp Phe Leu Asp Val Thr Asp Leu Asn			
225	230	235	240
Leu Asn Ser Ser Met Asp Leu His Leu Gln Gln Trp			
	245	250	

<210> 3795

<211> 311

<212> PRT

<213> Homo sapiens

<400> 3795

Met Thr Arg Asn Ala Val Trp Ala Leu Ser Asn Leu Cys Arg Gly Lys			
1	5	10	15
Asn Pro Pro Pro Glu Phe Ala Lys Val Ser Pro Cys Leu Pro Val Leu			
	20	25	30
Ser Arg Leu Leu Phe Ser Ser Asp Ser Asp Leu Leu Ala Asp Ala Cys			
	35	40	45

Trp Ala Leu Ser Tyr Leu Ser Asp Gly Pro Asn Glu Lys Ile Gln Ala
50 55 60
Val Ile Asp Ser Gly Val Cys Arg Arg Leu Val Glu Leu Leu Met His
65 70 75 80
Asn Asp Tyr Lys Val Ala Ser Pro Ala Leu Arg Ala Val Gly Asn Ile
85 90 95
Val Thr Gly Asp Asp Ile Gln Thr Gln Val Ile Leu Asn Cys Ser Ala
100 105 110
Leu Pro Cys Leu Leu His Leu Leu Ser Ser Pro Lys Glu Ser Ile Arg
115 120 125
Lys Glu Ala Cys Trp Thr Ile Ser Asn Ile Thr Ala Gly Asn Arg Ala
130 135 140
Gln Ile Gln Ala Val Ile Asp Ala Asn Ile Phe Pro Val Leu Ile Glu
145 150 155 160
Ile Leu Gln Lys Ala Glu Phe Arg Thr Arg Lys Glu Ala Ala Trp Ala
165 170 175
Ile Thr Asn Ala Thr Ser Gly Gly Thr Pro Glu Gln Ile Arg Tyr Leu
180 185 190
Val Ser Leu Gly Cys Ile Lys Pro Leu Cys Asp Leu Leu Thr Val Met
195 200 205
Asp Ser Lys Ile Val Gln Val Ala Leu Asn Gly Leu Glu Asn Ile Leu
210 215 220
Arg Leu Gly Glu Gln Glu Gly Lys Arg Ser Gly Ser Gly Val Asn Pro
225 230 235 240
Tyr Cys Gly Leu Ile Glu Glu Ala Tyr Gly Leu Asp Lys Ile Glu Phe
245 250 255
Leu Gln Ser His Glu Asn Gln Glu Ile Tyr Gln Lys Ala Phe Asp Leu
260 265 270
Ile Glu His Tyr Phe Gly Val Glu Asp Asp Asp Ser Ser Leu Ala Pro

275 280 285
 Gln Val Asp Glu Thr Gln Gln Gln Phe Ile Phe Gln Gln Pro Glu Ala
 290 295 300
 Pro Met Glu Gly Phe Gln Leu
 305 310

<210> 3796

<211> 221

<212> PRT

<213> Homo sapiens

<400> 3796

Met Trp Ile Leu Leu Phe Gln Leu Ser Ser Ala Leu Cys Phe Arg Met
 1 5 10 15
 Thr Ile Ser Val Gly Tyr Phe Gly Leu Ser Leu Asp Thr Pro Asn Leu
 20 25 30
 His Gly Asp Ile Phe Val Asn Cys Phe Leu Ser Ala Met Val Glu Val
 35 40 45
 Pro Ala Tyr Val Leu Ala Trp Leu Leu Leu Gln Tyr Leu Pro Arg Arg
 50 55 60
 Tyr Ser Met Ala Thr Ala Leu Phe Leu Gly Gly Ser Val Leu Leu Phe
 65 70 75 80
 Met Gln Leu Val Pro Pro Asp Leu Tyr Tyr Leu Ala Thr Val Leu Val
 85 90 95
 Met Val Gly Lys Phe Gly Val Thr Ala Ala Phe Ser Met Val Tyr Val
 100 105 110
 Tyr Thr Ala Glu Leu Tyr Pro Thr Val Val Arg Asn Met Gly Val Gly
 115 120 125

Val Ser Ser Thr Ala Ser Arg Leu Gly Ser Ile Leu Ser Pro Tyr Phe
 130 135 140
 Val Tyr Leu Gly Ala Tyr Asp Arg Phe Leu Pro Tyr Ile Leu Met Gly
 145 150 155 160
 Ser Leu Thr Ile Leu Thr Ala Ile Leu Thr Leu Phe Leu Pro Glu Ser
 165 170 175
 Phe Gly Thr Pro Leu Pro Asp Thr Ile Asp Gln Met Leu Arg Val Lys
 180 185 190
 Gly Met Lys His Arg Lys Thr Pro Ser His Thr Arg Met Leu Lys Asp
 195 200 205
 Gly Gln Glu Arg Pro Thr Ile Leu Lys Ser Thr Ala Phe
 210 215 220

<210> 3797

<211> 101

<212> PRT

<213> Homo sapiens

<400> 3797

Met His Cys Thr Pro Ser Cys His Arg Ala Leu Ala Pro Ala Ala Cys
 1 5 10 15
 Thr Ala Leu Pro Leu Ala Pro Leu Ser Asp Gln Leu Pro Leu Ile Leu
 20 25 30
 Gln Ile Ser Ala Trp Met Ser Pro Pro Glu Gly Arg Cys Ala Cys Leu
 35 40 45
 Pro Arg Gln Ser Arg Cys Cys His Leu Leu Thr Glu Ser Gly Phe Leu
 50 55 60
 Pro Gln Ser Thr Pro Val Ser Ile Cys Leu Thr Leu Ser Leu His Leu

65 70 75 80
 Asp Cys Lys Val Arg Glu Ser Arg Asp His Thr His Leu Cys Ser Leu
 85 90 95
 Gly Thr Tyr Ser Leu
 100

<210> 3798

<211> 258

<212> PRT

<213> Homo sapiens

<400> 3798

Met Tyr Tyr Ala Val Glu Ile Leu Phe Asn Arg Gln Ser Ala Phe Phe
 1 5 10 15
 Ser Ala Val Pro Asn Met Pro Gln Gln Arg Gln Asp Gln His His Gln
 20 25 30
 Ser Ala Met Met His Pro Ala Ser Ala Ala Gly Pro Pro Ile Ala Ala
 35 40 45
 Thr Pro Pro Ala Tyr Ser Thr Gln Tyr Val Ala Tyr Ser Pro Gln Gln
 50 55 60
 Phe Pro Asn Gln Pro Leu Val Gln His Val Pro His Tyr Gln Ser Gln
 65 70 75 80
 His Pro His Val Tyr Ser Pro Val Ile Gln Gly Asn Ala Arg Met Met
 85 90 95
 Ala Pro Pro Thr His Ala Gln Pro Gly Leu Val Ser Ser Ser Ala Thr
 100 105 110
 Gln Tyr Gly Ala His Glu Gln Thr His Ala Met Tyr Val Ser Thr Gly
 115 120 125

Ser Leu Ala Gln Gln Tyr Ala His Pro Asn Ala Thr Leu His Pro His
 130 135 140
 Thr Pro His Pro Gln Pro Ser Ala Thr Pro Thr Gly Gln Gln Gln Ser
 145 150 155 160
 Gln His Gly Gly Ser His Pro Ala Pro Ser Pro Val Gln His His Gln
 165 170 175
 His Gln Ala Ala Gln Ala Leu His Leu Ala Ser Pro Gln Gln Gln Ser
 180 185 190
 Ala Ile Tyr His Ala Gly Leu Ala Pro Thr Pro Pro Ser Met Thr Pro
 195 200 205
 Ala Ser Asn Thr Gln Ser Pro Gln Asn Ser Phe Pro Ala Ala Gln Gln
 210 215 220
 Thr Val Phe Thr Ile His Pro Ser His Val Gln Pro Ala Tyr Thr Asn
 225 230 235 240
 Pro Pro His Met Ala His Val Pro Gln Val Ile Pro Ala Leu Ala Asn
 245 250 255
 Phe Leu

<210> 3799

<211> 531

<212> PRT

<213> Homo sapiens

<400> 3799

Met Asp Phe Gly Leu Ala Trp Val Phe Leu Val Ala Leu Leu Arg Gly
 1 5 10 15
 Val Gln Cys Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln

20	25	30
Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Pro Phe		
35	40	45
Ser Thr Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu		
50	55	60
Glu Trp Val Ala Leu Ile Ser Asp Glu Gly Thr Lys Gln Phe Tyr Leu		
65	70	75
80		
Asp Ser Val Arg Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Arg		
85	90	95
Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Val Glu Asp Thr Ala Lys		
100	105	110
Tyr Tyr Cys Ala Lys Asp Val Ser Gly Ser Gly Trp Phe Phe Met Tyr		
115	120	125
Ala Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Ala Ser Ser Ala		
130	135	140
Pro Thr Lys Ala Pro Asp Val Phe Pro Ile Ile Ser Gly Cys Arg His		
145	150	155
160		
Pro Lys Asp Asn Ser Pro Val Val Leu Ala Cys Leu Ile Thr Gly Tyr		
165	170	175
His Pro Thr Ser Val Thr Val Thr Trp Tyr Met Gly Thr Gln Ser Gln		
180	185	190
Pro Gln Arg Thr Phe Pro Glu Ile Gln Arg Arg Asp Ser Tyr Tyr Met		
195	200	205
Thr Ser Ser Gln Leu Ser Thr Pro Leu Gln Gln Trp Arg Gln Gly Glu		
210	215	220
Tyr Lys Cys Val Val Gln His Thr Ala Ser Lys Ser Lys Lys Glu Ile		
225	230	235
240		
Phe Arg Trp Pro Glu Ser Pro Lys Ala Gln Ala Ser Ser Val Pro Thr		
245	250	255

Ala Gln Pro Gln Ala Glu Gly Ser Leu Ala Lys Ala Thr Thr Ala Pro
260 265 270
Ala Thr Thr Arg Asn Thr Gly Arg Gly Gly Glu Glu Lys Lys Lys Glu
275 280 285
Lys Glu Lys Glu Glu Gln Glu Glu Arg Glu Thr Lys Thr Pro Glu Cys
290 295 300
Pro Ser His Thr Gln Pro Leu Gly Val Tyr Leu Leu Thr Pro Ala Val
305 310 315 320
Gln Asp Leu Trp Leu Arg Asp Lys Ala Thr Phe Thr Cys Phe Val Val
325 330 335
Gly Ser Asp Leu Lys Asp Ala His Leu Thr Trp Glu Val Ala Gly Lys
340 345 350
Val Pro Thr Gly Gly Val Glu Glu Gly Leu Leu Glu Arg His Gly Asn
355 360 365
Gly Ser Gln Ser Gln His Ser Arg Leu Thr Leu Pro Arg Ser Leu Trp
370 375 380
Asn Ala Gly Thr Ser Val Thr Cys Thr Leu Asn His Pro Ser Leu Pro
385 390 395 400
Pro Gln Arg Leu Met Ala Leu Arg Glu Pro Ala Ala Gln Ala Pro Val
405 410 415
Lys Leu Ser Leu Asn Leu Leu Ala Ser Ser Asp Pro Pro Glu Ala Ala
420 425 430
Ser Trp Leu Leu Cys Glu Val Ser Gly Phe Ser Pro Pro Asn Ile Leu
435 440 445
Leu Met Trp Leu Glu Asp Gln Arg Glu Val Asn Thr Ser Gly Phe Ala
450 455 460
Pro Ala Arg Pro Pro Pro Gln Pro Arg Ser Thr Thr Phe Trp Ala Trp
465 470 475 480
Ser Val Leu Arg Val Pro Ala Pro Pro Ser Pro Gln Pro Val Thr Tyr

485 490 495
 Thr Cys Val Val Ser His Glu Asp Ser Arg Thr Leu Leu Asn Ala Ser
 500 505 510
 Arg Ser Leu Glu Val Ser Cys Glu Ser Pro Pro Gly Pro Gly Leu Gly
 515 520 525
 Arg Gly Leu
 530

<210> 3800

<211> 516

<212> PRT

<213> Homo sapiens

<400> 3800

Met Pro Ser Ser Thr Ser Pro Asp Gln Gly Asp Asp Leu Glu Asn Cys
 1 5 10 15
 Ile Leu Arg Phe Ser Asp Leu Asp Leu Lys Asp Met Ser Phe Ile Asn
 20 25 30
 Pro Ser Ser Ser Leu Lys Ala Glu Leu Asp Gly Ser Thr Lys Lys Lys
 35 40 45
 Tyr Ser Phe Ala Lys Lys Lys Ala Phe Ala Leu Phe Val Lys Thr Lys
 50 55 60
 Glu Val Pro Thr Lys Arg Ser Phe Glu Cys Lys Glu Lys Leu Trp Lys
 65 70 75 80
 Cys Cys Arg Gln Leu Phe Thr Asp Gln Thr Ser Ile His Arg His Val
 85 90 95
 Ala Thr Gln His Ala Asp Glu Ile Tyr His Gln Thr Ala Ser Ile Leu
 100 105 110

Lys Gln Leu Ala Val Thr Leu Ser Thr Ser Lys Ser Leu Ser Ser Ala
115 120 125
Asp Glu Lys Asn Pro Leu Lys Glu Cys Leu Pro His Ser His Asp Val
130 135 140
Ser Ala Trp Leu Pro Asp Ile Ser Cys Phe Asn Pro Asp Glu Leu Ile
145 150 155 160
Ser Gly Gln Gly Ser Glu Glu Gly Glu Val Leu Leu Tyr Tyr Cys Tyr
165 170 175
His Asp Leu Glu Asp Pro Gln Trp Ile Cys Ala Trp Gln Thr Ala Leu
180 185 190
Cys Gln His Leu His Leu Thr Gly Lys Ile Arg Ile Ala Ala Glu Gly
195 200 205
Ile Asn Gly Thr Val Gly Gly Ser Lys Leu Ala Thr Arg Leu Tyr Val
210 215 220
Glu Val Met Leu Ser Phe Pro Leu Phe Lys Asp Asp Leu Cys Lys Asp
225 230 235 240
Asp Phe Lys Thr Ser Lys Gly Gly Ala His Cys Phe Pro Glu Leu Arg
245 250 255
Val Gly Val Phe Glu Glu Ile Val Pro Met Gly Ile Ser Pro Lys Lys
260 265 270
Ile Ser Tyr Lys Lys Pro Gly Ile His Leu Ser Pro Gly Glu Phe His
275 280 285
Lys Glu Val Glu Lys Phe Leu Ser Gln Ala Asn Gln Glu Gln Ser Asp
290 295 300
Thr Ile Leu Leu Asp Cys Arg Asn Phe Tyr Glu Ser Lys Ile Gly Arg
305 310 315 320
Phe Gln Gly Cys Leu Ala Pro Asp Ile Arg Lys Phe Ser Tyr Phe Pro
325 330 335
Ser Tyr Val Asp Lys Asn Leu Glu Leu Phe Arg Glu Lys Arg Val Leu

340 345 350
Met Tyr Cys Thr Gly Gly Ile Arg Cys Glu Arg Gly Ser Ala Tyr Leu
355 360 365
Lys Ala Lys Gly Val Cys Lys Glu Val Phe Gln Leu Lys Gly Gly Ile
370 375 380
His Lys Tyr Leu Glu Glu Phe Pro Asp Gly Phe Tyr Lys Gly Lys Leu
385 390 395 400
Phe Val Phe Asp Glu Arg Tyr Ala Leu Ser Tyr Asn Ser Asp Val Val
405 410 415
Ser Glu Cys Ser Tyr Cys Gly Ala Arg Trp Asp Gln Tyr Lys Leu Cys
420 425 430
Cys Thr Pro Gln Cys Arg Gln Leu Val Leu Thr Cys Pro Ala Cys Gln
435 440 445
Gly Gln Gly Phe Thr Ala Cys Cys Val Thr Cys Gln Asp Lys Gly Ser
450 455 460
Arg Lys Val Ser Gly Pro Met Gln Asp Ser Phe Lys Glu Glu Cys Glu
465 470 475 480
Cys Thr Ala Arg Arg Pro Arg Ile Pro Arg Glu Leu Leu Gln His Val
485 490 495
Arg Gln Pro Val Ser Pro Glu Pro Gly Pro Asp Ala Asp Glu Asp Gly
500 505 510
Pro Val Leu Met
515

<210> 3801

<211> 133

<212> PRT

<213> Homo sapiens

<400> 3801

Met Leu Leu Leu Val Trp Ser Arg Met Leu Ser Leu Leu Phe Phe Phe
 1 5 10 15
 Ser Phe Phe Phe Glu Thr Glu Ser Arg Ser Val Ala Gln Val Gly Val
 20 25 30
 Gln Trp His Asn Leu Cys Ser Leu Gln Thr Ala Ser Gln Val Gln Ala
 35 40 45
 Ile Leu Leu Ile Gln Pro Pro Lys Trp Leu Gly Leu Arg Ala Tyr Ala
 50 55 60
 Thr Ala Pro Gly Tyr Phe Phe Val Phe Leu Val Glu Ile Gly Phe His
 65 70 75 80
 His Val Gly Arg Pro Gly Leu Lys Leu Leu Thr Ser Gly Asp Pro Pro
 85 90 95
 Ala Leu Ala Ser Gln Gly Ala Gly Ile Ala Gly Val Ser His Arg Thr
 100 105 110
 Trp Pro Phe His Phe Phe Thr Ser His Ile Thr Phe Leu Ala His Ile
 115 120 125
 Lys Leu Leu Phe Asn
 130

<210> 3802

<211> 1372

<212> PRT

<213> Homo sapiens

<400> 3802

Met Gly His Leu Trp Leu Leu Gly Ile Trp Gly Leu Cys Gly Leu Leu

1	5	10	15
Leu Cys Ala Ala Asp Pro Ser Thr Asp Gly Ser Gln Ile Ile Pro Lys			
20	25	30	
Val Thr Glu Ile Ile Pro Lys Tyr Gly Ser Ile Asn Gly Ala Thr Arg			
35	40	45	
Leu Thr Ile Arg Gly Glu Gly Phe Ser Gln Ala Asn Gln Phe Asn Tyr			
50	55	60	
Gly Val Asp Asn Ala Glu Leu Gly Asn Ser Val Gln Leu Ile Ser Ser			
65	70	75	80
Phe Gln Ser Ile Thr Cys Asp Val Glu Lys Asp Ala Ser His Ser Thr			
85	90	95	
Gln Ile Thr Cys Tyr Thr Arg Ala Met Pro Glu Asp Ser Tyr Thr Val			
100	105	110	
Arg Val Ser Val Asp Gly Val Pro Val Thr Glu Asn Asn Thr Cys Lys			
115	120	125	
Gly His Ile Asn Ser Trp Glu Cys Thr Phe Asn Ala Lys Ser Phe Arg			
130	135	140	
Thr Pro Thr Ile Arg Ser Ile Thr Pro Leu Ser Gly Thr Pro Gly Thr			
145	150	155	160
Leu Ile Thr Ile Gln Gly Arg Ile Phe Thr Asp Val Tyr Gly Ser Asn			
165	170	175	
Ile Ala Leu Ser Ser Asn Gly Lys Asn Val Arg Ile Leu Arg Val Tyr			
180	185	190	
Ile Gly Gly Met Pro Cys Glu Leu Leu Ile Pro Gln Ser Asp Asn Leu			
195	200	205	
Tyr Gly Leu Lys Leu Asp His Pro Asn Gly Asp Met Gly Ser Met Val			
210	215	220	
Cys Lys Thr Thr Gly Thr Phe Ile Gly His His Asn Val Ser Phe Ile			
225	230	235	240

Leu Asp Asn Asp Tyr Gly Arg Ser Phe Pro Gln Lys Met Ala Tyr Phe
 245 250 255
 Val Ser Ser Leu Asn Lys Ile Ala Met Phe Gln Thr Tyr Ala Glu Val
 260 265 270
 Thr Met Ile Phe Pro Ser Gln Gly Ser Ile Arg Gly Gly Thr Thr Leu
 275 280 285
 Thr Ile Ser Gly Arg Phe Phe Asp Gln Thr Asp Phe Pro Val Arg Val
 290 295 300
 Leu Val Gly Gly Glu Pro Cys Asp Ile Leu Asn Val Thr Glu Asn Ser
 305 310 315 320
 Ile Cys Cys Lys Thr Pro Pro Lys Pro His Ile Leu Lys Thr Val Tyr
 325 330 335
 Pro Gly Gly Arg Gly Leu Lys Leu Glu Val Trp Asn Asn Ser Arg Pro
 340 345 350
 Ile Arg Leu Glu Glu Ile Leu Glu Tyr Asn Glu Lys Thr Pro Gly Tyr
 355 360 365
 Met Gly Ala Ser Trp Val Asp Ser Ala Ser Tyr Ile Trp Leu Met Glu
 370 375 380
 Gln Asp Thr Phe Val Ala Arg Phe Ser Gly Phe Leu Val Ala Pro Asp
 385 390 395 400
 Ser Asp Val Tyr Arg Phe Tyr Ile Lys Gly Asp Asp Arg Tyr Ala Ile
 405 410 415
 Tyr Phe Ser Gln Thr Gly Leu Pro Glu Asp Lys Val Arg Ile Ala Tyr
 420 425 430
 His Ser Ala Asn Ala Asn Ser Tyr Phe Ser Ser Pro Thr Gln Arg Ser
 435 440 445
 Asp Asp Ile His Leu Gln Lys Gly Lys Glu Tyr Tyr Ile Glu Ile Leu
 450 455 460
 Leu Gln Glu Tyr Arg Leu Ser Ala Phe Val Asp Val Gly Leu Tyr Gln

465 470 475 480
Tyr Arg Asn Val Tyr Thr Glu Gln Gln Thr Gly Asp Ala Val Asn Glu
 485 490 495
Glu Gln Val Ile Lys Ser Gln Ser Thr Ile Leu Gln Glu Val Gln Val
 500 505 510
Ile Thr Leu Glu Asn Trp Glu Thr Thr Asn Ala Ile Asn Glu Val Gln
 515 520 525
Lys Ile Lys Val Thr Ser Pro Cys Val Glu Ala Asn Ser Cys Ser Leu
 530 535 540
Tyr Gln Tyr Arg Leu Ile Tyr Asn Met Glu Lys Thr Val Phe Leu Pro
545 550 555 560
Ala Asp Ala Ser Glu Phe Ile Leu Gln Ser Ala Leu Asn Asp Leu Trp
 565 570 575
Ser Ile Lys Pro Asp Thr Val Gln Val Ile Arg Thr Gln Asn Pro Gln
 580 585 590
Ser Tyr Val Tyr Met Val Thr Phe Ile Ser Thr Arg Gly Asp Phe Asp
 595 600 605
Leu Leu Gly Tyr Glu Val Val Glu Gly Asn Asn Val Thr Leu Asp Ile
 610 615 620
Thr Glu Gln Thr Lys Gly Lys Pro Asn Leu Glu Thr Phe Thr Leu Asn
625 630 635 640
Trp Asp Gly Ile Ala Ser Lys Pro Leu Thr Leu Trp Ser Ser Glu Ala
 645 650 655
Glu Phe Gln Gly Ala Val Glu Glu Met Val Ser Thr Lys Cys Pro Pro
 660 665 670
Gln Ile Ala Asn Phe Glu Glu Gly Phe Val Val Lys Tyr Phe Arg Asp
 675 680 685
Tyr Glu Thr Asp Phe Asn Leu Glu His Ile Asn Arg Gly Gln Lys Thr
 690 695 700

Ala Glu Thr Asp Ala Tyr Cys Gly Arg Tyr Ser Leu Lys Asn Pro Ala
705 710 715 720
Val Leu Phe Asp Ser Ala Asp Val Lys Pro Asn Arg Arg Pro Tyr Gly
725 730 735
Asp Ile Leu Leu Phe Pro Tyr Asn Gln Leu Cys Leu Ala Tyr Lys Gly
740 745 750
Phe Leu Ala Asn Tyr Ile Gly Leu Lys Phe Gln Tyr Gln Asp Asn Ser
755 760 765
Lys Ile Thr Arg Ser Thr Asp Thr Gln Phe Thr Tyr Asn Phe Ala Tyr
770 775 780
Gly Asn Asn Trp Thr Tyr Thr Cys Ile Asp Leu Leu Asp Leu Val Arg
785 790 795 800
Thr Lys Tyr Thr Gly Thr Asn Val Ser Leu Gln Arg Ile Ser Leu His
805 810 815
Lys Ala Ser Glu Ser Gln Ser Phe Tyr Val Asp Val Val Tyr Ile Gly
820 825 830
His Thr Ser Thr Ile Ser Thr Leu Asp Glu Met Pro Lys Arg Arg Leu
835 840 845
Pro Ala Leu Ala Asn Lys Gly Ile Phe Leu Glu His Phe Gln Val Asn
850 855 860
Gln Thr Lys Thr Asn Gly Pro Thr Met Thr Asn Gln Tyr Ser Val Thr
865 870 875 880
Met Thr Ser Tyr Asn Cys Ser Tyr Asn Ile Pro Met Met Ala Val Ser
885 890 895
Phe Gly Gln Ile Ile Thr His Glu Thr Glu Asn Glu Phe Val Tyr Arg
900 905 910
Gly Asn Asn Trp Pro Gly Glu Ser Lys Ile His Thr Gln Arg Ile Gln
915 920 925
Ala Ala Ser Pro Pro Leu Ser Gly Ser Phe Asp Ile Gln Ala Tyr Gly

930 935 940
His Ile Leu Lys Gly Lys Ser Leu Ser Gln Pro Thr Pro Pro Pro Met
945 950 955 960
Pro Ile Leu Ser Gln Ser Glu Ala Lys Asn Pro Arg Ile Asn Gln Leu
965 970 975
Ser Ala Arg Trp Gln Gln Val Trp Leu Leu Ala Leu Glu Arg Gln Arg
980 985 990
Lys Leu Asn Asp Ala Leu Asp Arg Leu Glu Glu Leu Lys Glu Phe Ala
995 1000 1005
Asn Phe Asp Phe Asp Val Trp Arg Lys Lys Tyr Met Arg Trp Met Asn
1010 1015 1020
His Lys Lys Ser Arg Val Met Asp Phe Phe Arg Arg Ile Asp Lys Asp
1025 1030 1035 1040
Gln Asp Gly Lys Ile Thr Arg Gln Glu Phe Ile Asp Gly Ile Leu Ala
1045 1050 1055
Ser Lys Phe Pro Thr Thr Lys Leu Glu Met Thr Ala Val Ala Asp Ile
1060 1065 1070
Phe Asp Arg Asp Gly Asp Gly Tyr Ile Asp Tyr Tyr Glu Phe Val Ala
1075 1080 1085
Ala Leu His Pro Asn Lys Asp Ala Tyr Arg Pro Thr Thr Asp Ala Asp
1090 1095 1100
Lys Ile Glu Asp Glu Val Thr Arg Gln Val Ala Gln Cys Lys Cys Ala
1105 1110 1115 1120
Lys Arg Phe Gln Val Glu Gln Ile Gly Glu Asn Lys Tyr Arg Phe Gly
1125 1130 1135
Asp Ser Gln Gln Leu Arg Leu Val Arg Ile Leu Arg Ser Thr Val Met
1140 1145 1150
Val Arg Val Gly Gly Gly Trp Met Ala Leu Asp Glu Phe Leu Val Lys
1155 1160 1165

Asn Asp Pro Cys Arg Ala Arg Gly Arg Thr Asn Ile Glu Leu Arg Glu
 1170 1175 1180
 Lys Phe Ile Leu Pro Glu Gly Ala Ser Gln Gly Met Thr Pro Phe Arg
 1185 1190 1195 1200
 Ser Arg Gly Arg Arg Ser Lys Pro Ser Ser Arg Ala Ala Ser Pro Thr
 1205 1210 1215
 Arg Ser Ser Ser Ser Ala Ser Gln Ser Asn His Ser Cys Thr Ser Met
 1220 1225 1230
 Pro Ser Ser Pro Ala Thr Pro Ala Ser Gly Thr Lys Val Ile Pro Ser
 1235 1240 1245
 Ser Gly Ser Lys Leu Lys Arg Pro Thr Pro Thr Phe His Ser Ser Arg
 1250 1255 1260
 Thr Ser Leu Ala Gly Asp Thr Ser Asn Ser Ser Ser Pro Ala Ser Thr
 1265 1270 1275 1280
 Gly Ala Lys Thr Asn Arg Ala Asp Pro Lys Lys Ser Ala Ser Arg Pro
 1285 1290 1295
 Gly Ser Arg Ala Gly Ser Arg Ala Gly Ser Arg Ala Ser Ser Arg Arg
 1300 1305 1310
 Gly Ser Asp Ala Ser Asp Phe Asp Leu Leu Glu Thr Gln Ser Ala Cys
 1315 1320 1325
 Ser Asp Thr Ser Glu Ser Ser Ala Ala Gly Gly Gln Gly Asn Ser Arg
 1330 1335 1340
 Arg Gly Leu Asn Lys Pro Ser Lys Ile Pro Thr Met Ser Lys Lys Thr
 1345 1350 1355 1360
 Thr Thr Ala Ser Pro Arg Thr Pro Gly Pro Lys Arg
 1365 1370

<210> 3803

<211> 211

<212> PRT

<213> Homo sapiens

<400> 3803

Met Cys Ser Leu Pro Arg Gly Phe Glu Pro Gln Ala Pro Glu Asp Leu

1 5 10 15

Ala Gln Arg Ser Leu Val Glu Leu Arg Glu Met Leu Lys Arg Gln Glu

20 25 30

Arg Leu Leu Arg Asn Glu Leu Gln Arg Ile Thr Ile Ala Asp Gln Gly

35 40 45

Glu Gln Gln Ser Glu Glu Asn Ala Ser Thr Lys Asn Leu Thr Gly Leu

50 55 60

Ser Ser Gly Thr Glu Lys Lys Pro His Tyr Met Glu Val Leu Glu Met

65 70 75 80

Arg Ala Lys Asn Pro Val Pro Gln Leu Arg Lys Phe Lys Thr Asn Val

85 90 95

Leu Pro Phe Arg Gln Asn Asp Ser Ser Ser His Cys Gln Lys Ser Gly

100 105 110

Ser Pro Ile Ser Ser Glu Glu Arg Arg Arg Arg Asp Lys Gln His Leu

115 120 125

Asp Asp Ile Thr Ala Ala Arg Leu Leu Pro Leu His His Met Pro Thr

130 135 140

Gln Leu Leu Ser Ile Glu Glu Ser Leu Ala Leu Gln Lys Gln Gln Lys

145 150 155 160

Gln Asn Tyr Glu Glu Met Gln Ala Lys Leu Ala Ala Gln Lys Leu Ala

165 170 175

Glu Arg Leu Asn Ile Lys Met Arg Ser Tyr Asn Pro Glu Gly Glu Ser

180 185 190

Ser Gly Arg Tyr Arg Glu Val Arg Asp Glu Asp Asp Asp Trp Ser Ser
195 200 205
Asp Glu Phe
210

<210> 3804

<211> 118

<212> PRT

<213> Homo sapiens

<400> 3804

Met His Val Leu Arg Pro Ser Leu Phe Leu Ser Met Gly Gln Arg Pro
1 5 10 15
Leu Gly Leu Phe Thr Val Gly Arg Ile Tyr Asn Leu Pro Leu Phe Ser
20 25 30
Val Val Thr Arg Phe Lys Ala Lys His Met Thr Arg Leu Thr Ala Ile
35 40 45
Ser Leu Thr His Thr Pro Val Ile Phe Thr Cys Ile Arg Asn Gly Leu
50 55 60
Ala Pro Ser Ser Thr Pro Ile Ile Cys Thr Cys Ile Ser Asn Glu Leu
65 70 75 80
Ala Val Leu Glu Arg Gln Ser Leu Leu Thr Phe Pro Thr Cys Thr Ser
85 90 95
Pro Arg Leu Phe Asn Lys Glu Ala Gly Gly Arg His Tyr Pro Ile Arg
100 105 110
Ser Phe Ser Arg Leu Val
115

<210> 3805

<211> 252

<212> PRT

<213> Homo sapiens

<400> 3805

Met Lys Asp Tyr Phe Pro Ile Ser Leu Val Lys Thr Ala Glu Leu Asp

1 5 10 15

Pro Ser Arg Asn Tyr Ile Ala Gly Phe His Pro His Gly Val Leu Ala

20 25 30

Val Gly Ala Phe Ala Asn Leu Cys Thr Glu Ser Thr Gly Phe Ser Ser

35 40 45

Ile Phe Pro Gly Ile Arg Pro His Leu Met Met Leu Thr Leu Trp Phe

50 55 60

Arg Ala Pro Phe Phe Arg Asp Tyr Ile Met Ser Ala Gly Leu Val Thr

65 70 75 80

Ser Glu Lys Glu Ser Ala Ala His Ile Leu Asn Arg Lys Gly Gly Gly

85 90 95

Asn Leu Leu Gly Ile Ile Val Gly Gly Ala Gln Glu Ala Leu Asp Ala

100 105 110

Arg Pro Gly Ser Phe Thr Leu Leu Leu Arg Asn Arg Lys Gly Phe Val

115 120 125

Arg Leu Ala Leu Thr His Gly Ala Pro Leu Val Pro Ile Phe Ser Phe

130 135 140

Gly Glu Asn Asp Leu Phe Asp Gln Ile Pro Asn Ser Ser Gly Ser Trp

145 150 155 160

Leu Arg Tyr Ile Gln Asn Arg Leu Gln Lys Ile Met Gly Ile Ser Leu

165 170 175

Pro Leu Phe His Gly Arg Gly Val Leu Gln Tyr Ser Phe Gly Leu Ile

180

185

190

Pro Tyr Arg Arg Pro Ile Thr Thr Val Val Gly Lys Pro Ile Glu Val

195

200

205

Gln Lys Thr Leu His Pro Ser Glu Glu Glu Val Asn Gln Leu His Gln

210

215

220

Arg Tyr Ile Lys Glu Leu Cys Asn Leu Phe Glu Ala His Lys Leu Lys

225

230

235

240

Phe Asn Ile Pro Ala Asp Gln His Leu Glu Phe Cys

245

250

<210> 3806

<211> 136

<212> PRT

<213> Homo sapiens

<400> 3806

Met Asp His Thr Leu Leu Trp His Ala Gly His Val Leu Gly Ala Met

1

5

10

15

Ile Ile Thr Leu His Asn Leu Thr Asn Leu Ile Tyr Ala Ala Asp Pro

20

25

30

His Gly Asp Gly Ile Ile Phe Ile Leu Phe Tyr Tyr Leu Phe Ile Phe

35

40

45

Phe Glu Thr Glu Ser Arg Ser Gly Thr Arg Leu Lys Gly Ser Gly Val

50

55

60

Ile Ser Ala His Cys Asn Leu Arg Leu Pro Gly Ser Ser Asp Ser Pro

65

70

75

80

Ala Thr Ala Ser Arg Val Ala Gly Thr Thr Arg His Ala Pro Pro Cys

85 90 95
 Pro Ala Asn Phe Cys Ile Phe Ser Thr Asp Gly Val Ser Pro Cys Trp
 100 105 110
 Pro Gly Trp Ser Leu Ser Leu Asp Leu Val Ile His Pro Pro Trp Pro
 115 120 125
 Pro Lys Val Leu Gly Leu Gln Ala
 130 135

<210> 3807

<211> 450

<212> PRT

<213> Homo sapiens

<400> 3807

Met Glu Asp Pro Ser Glu Pro Asp Arg Leu Ala Ser Ala Asp Gly Gly
 1 5 10 15
 Ser Pro Glu Glu Glu Glu Asp Gly Glu Arg Glu Pro Leu Leu Pro Arg
 20 25 30
 Ile Ala Trp Ala His Pro Arg Arg Gly Ala Pro Gly Ser Ala Val Arg
 35 40 45
 Leu Leu Asp Arg Ser Arg Pro Ala Val Ser Val Thr Ile Gly Thr Ser
 50 55 60
 Glu Met Asn Ala Phe Leu Asp Asp Pro Glu Phe Ala Asp Ile Met Leu
 65 70 75 80
 Arg Ala Glu Gln Ala Ile Glu Val Gly Ile Phe Pro Glu Arg Ile Ser
 85 90 95
 Gln Gly Ser Ser Gly Ser Tyr Phe Val Lys Asp Pro Lys Arg Lys Ile
 100 105 110

Ile Gly Val Phe Lys Pro Lys Ser Glu Glu Pro Tyr Gly Gln Leu Asn			
115	120	125	
Pro Lys Trp Thr Lys Tyr Val His Lys Val Cys Cys Pro Cys Cys Phe			
130	135	140	
Gly Arg Gly Cys Leu Ile Pro Asn Gln Gly Tyr Leu Ser Glu Ala Gly			
145	150	155	160
Ala Tyr Leu Val Asp Asn Lys Leu His Leu Ser Ile Val Pro Lys Thr			
165	170	175	
Lys Val Val Trp Leu Val Ser Glu Thr Phe Asn Tyr Asn Ala Ile Asp			
180	185	190	
Arg Ala Lys Ser Arg Gly Lys Lys Tyr Ala Leu Glu Lys Val Pro Lys			
195	200	205	
Val Gly Arg Lys Phe His Arg Ile Gly Leu Pro Pro Lys Ile Gly Ser			
210	215	220	
Phe Gln Leu Phe Val Glu Gly Tyr Lys Glu Ala Glu Tyr Trp Leu Arg			
225	230	235	240
Lys Phe Glu Ala Asp Pro Leu Pro Glu Asn Ile Arg Lys Gln Phe Gln			
245	250	255	
Ser Gln Phe Glu Arg Leu Val Ile Leu Asp Tyr Ile Ile Arg Asn Thr			
260	265	270	
Asp Arg Gly Asn Asp Asn Trp Leu Val Arg Tyr Glu Lys Gln Lys Cys			
275	280	285	
Glu Lys Glu Ile Asp His Lys Glu Ser Lys Trp Ile Asp Asp Glu Glu			
290	295	300	
Phe Leu Ile Lys Ile Ala Ala Ile Asp Asn Gly Leu Ala Phe Pro Phe			
305	310	315	320
Lys His Pro Asp Glu Trp Arg Ala Tyr Pro Phe His Trp Ala Trp Leu			
325	330	335	
Pro Gln Ala Lys Val Pro Phe Ser Glu Glu Ile Arg Asn Leu Ile Leu			

340 345 350
 Pro Tyr Ile Ser Asp Met Asn Phe Val Gln Asp Leu Cys Glu Asp Leu
 355 360 365
 Tyr Glu Leu Phe Lys Thr Asp Lys Gly Phe Asp Lys Ala Thr Phe Glu
 370 375 380
 Ser Gln Met Ser Val Met Arg Gly Gln Ile Leu Asn Leu Thr Gln Ala
 385 390 395 400
 Leu Arg Asp Gly Lys Ser Pro Phe Gln Leu Val Gln Ile Pro Cys Val
 405 410 415
 Ile Val Glu Arg Ser Gln Gly Gly Ser Gln Gly Arg Ile Val His Leu
 420 425 430
 Ser Asn Ser Phe Thr Gln Thr Val Asn Cys Arg Lys Pro Phe Phe Ser
 435 440 445
 Ser Trp
 450

<210> 3808

<211> 134

<212> PRT

<213> Homo sapiens

<400> 3808

Met Trp Val Tyr Ser Val Lys Ser Phe Gly Leu Trp Trp Tyr Gln Ala
 1 5 10 15
 Tyr Arg Ser Pro His Pro Asp Pro Gly Arg Gly Val Asp Trp Ser Arg
 20 25 30
 Gly Thr Leu Met Gly Pro Gly Arg Asp Asp Arg Arg Ser Val Ser Leu
 35 40 45

Pro Phe Ser Leu Lys Phe Pro Ala Ser Met Ala Gly Ser Gln His Glu
 50 55 60
 Leu Arg Pro Leu Gln Glu Ser Leu Pro Phe Cys Ser Arg Pro Pro Pro
 65 70 75 80
 Arg Cys Gln Ala Gly Ser Thr Asn Gln Lys Arg Ser Trp Ala Gly Ala
 85 90 95
 Ala Val Gln Arg Ala Asn Arg Arg Ala Val Gly Ala Gly Leu Ala Arg
 100 105 110
 Ala Cys Gly Ser Cys Arg Leu Ser Gly Arg His Val Gln Thr Gly Arg
 115 120 125
 Asp Thr Arg Gly Phe Arg
 130

<210> 3809

<211> 595

<212> PRT

<213> Homo sapiens

<400> 3809

Met Met Ala Ala Asp Ile Pro Arg Val Thr Thr Pro Leu Ser Ser Leu
 1 5 10 15
 Val Gln Val Pro Gln Glu Glu Asp Arg Gln Glu Glu Glu Val Thr Thr
 20 25 30
 Met Ile Leu Glu Asp Asp Ser Trp Val Gln Glu Ala Val Leu Gln Glu
 35 40 45
 Glu Val Thr Arg Gly Pro Gln Gly Ala Leu Gly Arg Leu Arg Glu Leu
 50 55 60
 Cys Arg Arg Trp Leu Arg Pro Glu Val His Thr Lys Glu Gln Met Leu

65	70	75	80
Thr Met Leu Pro Lys Glu Ile Gln Ala Trp Leu Gln Glu His Arg Pro			
	85	90	95
Glu Ser Ser Glu Glu Ala Ala Ala Leu Val Glu Asp Leu Thr Gln Thr			
	100	105	110
Leu Gln Asp Ser Asp Phe Glu Ile Gln Ser Glu Asn Gly Glu Asn Cys			
	115	120	125
Asn Gln Asp Met Phe Glu Asn Glu Ser Arg Lys Ile Phe Ser Glu Met			
	130	135	140
Pro Glu Gly Glu Ser Ala Gln His Ser Asp Gly Glu Ser Asp Phe Glu			
145	150	155	160
Arg Asp Ala Gly Ile Gln Arg Leu Gln Gly His Thr Pro Gly Glu Asp			
	165	170	175
His Gly Glu Val Val Ser Gln Asp Arg Glu Val Gly Gln Leu Ile Gly			
	180	185	190
Leu Gln Gly Thr Tyr Leu Gly Glu Lys Pro Tyr Glu Cys Pro Gln Cys			
	195	200	205
Gly Lys Thr Phe Ser Arg Lys Ser His Leu Ile Thr His Glu Arg Thr			
	210	215	220
His Thr Gly Glu Lys Tyr Tyr Lys Cys Asp Glu Cys Gly Lys Ser Phe			
225	230	235	240
Ser Asp Gly Ser Asn Phe Ser Arg His Gln Thr Thr His Thr Gly Glu			
	245	250	255
Lys Pro Tyr Lys Cys Arg Asp Cys Gly Lys Ser Phe Ser Arg Ser Ala			
	260	265	270
Asn Leu Ile Thr His Gln Arg Ile His Thr Gly Glu Lys Pro Phe Gln			
	275	280	285
Cys Ala Glu Cys Gly Lys Ser Phe Ser Arg Ser Pro Asn Leu Ile Ala			
	290	295	300

His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Ser Cys Pro Glu Cys
305 310 315 320
Gly Lys Ser Phe Gly Asn Arg Ser Ser Leu Asn Thr His Gln Gly Ile
325 330 335
His Thr Gly Glu Lys Pro Tyr Glu Cys Lys Glu Cys Gly Glu Ser Phe
340 345 350
Ser Tyr Asn Ser Asn Leu Ile Arg His Gln Arg Ile His Thr Gly Glu
355 360 365
Lys Pro Tyr Lys Cys Thr Asp Cys Gly Gln Arg Phe Ser Gln Ser Ser
370 375 380
Ala Leu Ile Thr His Arg Arg Thr His Thr Gly Glu Lys Pro Tyr Gln
385 390 395 400
Cys Ser Glu Cys Gly Lys Ser Phe Ser Arg Ser Ser Asn Leu Ala Thr
405 410 415
His Arg Arg Thr His Met Val Glu Lys Pro Tyr Lys Cys Gly Val Cys
420 425 430
Gly Lys Ser Phe Ser Gln Ser Ser Ser Leu Ile Ala His Gln Gly Met
435 440 445
His Thr Gly Glu Lys Pro Tyr Glu Cys Leu Thr Cys Gly Glu Ser Phe
450 455 460
Ser Trp Ser Ser Asn Leu Leu Lys His Gln Arg Ile His Thr Gly Glu
465 470 475 480
Lys Pro Tyr Lys Cys Ser Glu Cys Gly Lys Cys Phe Ser Gln Arg Ser
485 490 495
Gln Leu Val Val His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys
500 505 510
Cys Leu Met Cys Gly Lys Ser Phe Ser Arg Gly Ser Ile Leu Val Met
515 520 525
His Gln Arg Ala His Leu Gly Asp Lys Pro Tyr Arg Cys Pro Glu Cys

530 535 540
 Gly Lys Gly Phe Ser Trp Asn Ser Val Leu Ile Ile His Gln Arg Ile
 545 550 555 560
 His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Gly Phe
 565 570 575
 Ser Asn Ser Ser Asn Phe Ile Thr His Gln Arg Thr His Met Lys Glu
 580 585 590
 Lys Leu Tyr
 595

<210> 3810

<211> 534

<212> PRT

<213> Homo sapiens

<400> 3810

Met Glu Leu Gly Leu Ser Trp Ile Phe Leu Val Ala Ile Leu Lys Gly
 1 5 10 15
 Val Gln Cys Glu Val Lys Leu Val Glu Ser Gly Gly Gly Leu Val Gln
 20 25 30
 Ser Gly Arg Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe
 35 40 45
 Asp Asp Phe Ala Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 50 55 60
 Glu Trp Val Ser Gly Val Thr Trp Lys Gly Asp Ala Leu Gly Tyr Ala
 65 70 75 80
 Asp Ser Val Lys Gly Arg Phe Ser Leu Thr Arg Asp Ser Ala Arg Lys
 85 90 95

Ser Leu Ser Leu Gln Met Asp Asn Leu Arg Tyr Asp Asp Thr Ala Val
 100 105 110
 Tyr Phe Cys Ala Lys Glu Val Thr Val Leu Trp Leu Arg Gly Gly Ser
 115 120 125
 Pro Thr Phe Phe Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val
 130 135 140
 Ser Ser Ala Pro Thr Lys Ala Pro Asp Val Phe Pro Ile Ile Ser Gly
 145 150 155 160
 Cys Arg His Pro Lys Asp Asn Ser Pro Val Val Leu Ala Cys Leu Ile
 165 170 175
 Thr Gly Tyr His Pro Thr Ser Val Thr Val Thr Trp Tyr Met Gly Thr
 180 185 190
 Gln Ser Gln Pro Gln Arg Thr Phe Pro Glu Ile Gln Arg Arg Asp Ser
 195 200 205
 Tyr Tyr Met Thr Ser Ser Gln Leu Ser Thr Pro Leu Gln Gln Trp Arg
 210 215 220
 Gln Gly Glu Tyr Lys Cys Val Val Gln His Thr Ala Ser Lys Ser Lys
 225 230 235 240
 Lys Glu Ile Phe Arg Trp Pro Glu Ser Pro Lys Ala Gln Ala Ser Ser
 245 250 255
 Val Pro Thr Ala Gln Pro Gln Ala Glu Gly Ser Leu Ala Lys Ala Thr
 260 265 270
 Thr Ala Pro Ala Thr Thr Arg Asn Thr Gly Arg Gly Gly Glu Glu Lys
 275 280 285
 Lys Lys Glu Lys Glu Lys Glu Glu Gln Glu Glu Arg Glu Thr Lys Thr
 290 295 300
 Pro Glu Cys Pro Ser His Thr Gln Pro Leu Gly Val Tyr Leu Leu Thr
 305 310 315 320
 Pro Ala Val Gln Asp Leu Trp Leu Arg Asp Lys Ala Thr Phe Thr Cys

	325		330		335
Phe Val Val Gly Ser Asp Leu Lys Asp Ala His Leu Thr Trp Glu Val					
	340		345		350
Ala Gly Lys Val Pro Thr Gly Gly Val Glu Glu Gly Leu Leu Glu Arg					
	355		360		365
His Ser Asn Gly Ser Gln Ser Gln His Ser Arg Leu Thr Leu Pro Arg					
	370		375		380
Ser Leu Trp Asn Ala Gly Thr Ser Ala Thr Cys Thr Leu Asn His Pro					
385		390		395	400
Ser Leu Pro Pro Gln Arg Leu Met Ala Leu Arg Glu Pro Ala Ala Gln					
	405		410		415
Ala Pro Val Lys Leu Ser Leu Asn Leu Leu Ala Ser Ser Asp Pro Pro					
	420		425		430
Glu Ala Ala Ser Trp Leu Leu Cys Glu Val Ser Gly Phe Ser Pro Pro					
	435		440		445
Asn Ile Leu Leu Met Trp Leu Glu Asp Gln Arg Glu Val Asn Thr Ser					
	450		455		460
Gly Phe Ala Pro Ala Arg Pro Pro Pro Gln Pro Gly Ser Thr Thr Phe					
465		470		475	480
Trp Ala Trp Ser Val Leu Arg Val Pro Ala Pro Pro Ser Pro Gln Pro					
	485		490		495
Ala Thr Tyr Thr Cys Val Val Ser His Glu Asp Ser Arg Thr Leu Leu					
	500		505		510
Asn Ala Ser Arg Ser Leu Glu Val Ser Cys Glu Ser Pro Pro Gly Pro					
	515		520		525
Gly Leu Gly Arg Gly Leu					
	530				

<210> 3811

<211> 101

<212> PRT

<213> Homo sapiens

<400> 3811

Met Gly Gly Thr Glu Val Pro Arg Gly Ser Phe Val Leu Gly Val Gln

1 5 10 15

Leu Lys Ala Val Asp Gly Glu Ala Ile Leu Ser Leu Cys Val Asp Ser

20 25 30

Gly Leu Ser Asp Thr Ser Pro Asp Glu Gly Leu Ile Glu Asp Leu Thr

35 40 45

Ile Glu Asp Lys Ala Val Glu Gln Leu Ala Glu Gly Leu Leu Ser His

50 55 60

Tyr Leu Pro Asp Leu Gln Arg Ser Lys Gln Ala Leu Gln Glu Leu Thr

65 70 75 80

Thr Ala Ala Val Asp Cys Thr Cys Leu Lys Leu Lys Lys Ala Lys Leu

85 90 95

Gln Ile Lys Glu Asp

100

<210> 3812

<211> 938

<212> PRT

<213> Homo sapiens

<400> 3812

Met Thr Cys Leu Ser His Pro Leu Gln Leu Glu Val Thr Ala Asp Leu

1	5	10	15
Ala Glu Arg Arg Arg Ile Arg Ser Ala Ile Arg Glu Leu Gln Arg Gln			
20	25	30	
Glu Leu Glu Arg Glu Glu Glu Ala Leu Ala Ser Lys Arg Phe Arg Ala			
35	40	45	
Glu Arg Gln Asp Asn Lys Glu Asn Trp Leu His Ser Gln Gln Arg Glu			
50	55	60	
Ala Glu Gln Arg Ala Ala Leu Ala Arg Leu Ala Gly Gln Leu Glu Ser			
65	70	75	80
Met Asn Asp Val Glu Glu Leu Thr Ala Leu Leu Arg Ser Ala Gly Glu			
85	90	95	
Tyr Glu Glu Arg Lys Leu Ile Arg Ala Ala Ile Arg Arg Val Arg Ala			
100	105	110	
Gln Glu Ile Glu Ala Ala Thr Leu Ala Gly Arg Leu Tyr Ser Gly Arg			
115	120	125	
Pro Asn Ser Gly Ser Arg Glu Asp Ser Lys Gly Leu Ala Ala His Arg			
130	135	140	
Leu Glu Gln Cys Glu Val Pro Glu Arg Glu Glu Gln Glu Gln Gln Ala			
145	150	155	160
Glu Val Ser Lys Pro Ser Pro Thr Pro Glu Gly Thr Ser Gln Asp Val			
165	170	175	
Thr Thr Val Thr Leu Leu Leu Arg Ala Pro Pro Gly Ser Thr Ser Ser			
180	185	190	
Ser Pro Ala Ser Pro Ser Ser Ser Pro Thr Pro Ala Ser Pro Glu Pro			
195	200	205	
Pro Leu Glu Pro Ala Glu Ala Gln Cys Leu Thr Ala Glu Val Pro Gly			
210	215	220	
Ser Pro Glu Pro Pro Pro Ser Pro Pro Lys Thr Thr Ser Pro Glu Pro			
225	230	235	240

Gln Glu Ser Pro Thr Leu Pro Ser Thr Glu Gly Gln Val Val Asn Lys
 245 250 255
 Leu Leu Ser Gly Pro Lys Glu Thr Pro Ala Ala Gln Ser Pro Thr Arg
 260 265 270
 Gly Pro Ser Asp Thr Lys Arg Ala Asp Val Ala Gly Pro Arg Pro Cys
 275 280 285
 Gln Arg Ser Leu Ser Val Leu Ser Pro Arg Gln Pro Ala Gln Asn Arg
 290 295 300
 Glu Ser Thr Pro Leu Ala Ser Gly Pro Ser Ser Phe Gln Arg Ala Gly
 305 310 315 320
 Ser Val Arg Asp Arg Val His Lys Phe Thr Ser Asp Ser Pro Met Ala
 325 330 335
 Ala Arg Leu Gln Asp Gly Thr Pro Gln Ala Ala Leu Ser Pro Leu Thr
 340 345 350
 Pro Ala Arg Leu Leu Gly Pro Ser Leu Thr Ser Thr Thr Pro Ala Ser
 355 360 365
 Ser Ser Ser Gly Ser Ser Ser Arg Gly Pro Ser Asp Thr Ser Ser Arg
 370 375 380
 Phe Ser Lys Glu Gln Arg Gly Val Ala Gln Pro Leu Ala Gln Leu Arg
 385 390 395 400
 Ser Cys Pro Gln Glu Glu Gly Pro Arg Gly Arg Gly Leu Ala Ala Arg
 405 410 415
 Pro Leu Glu Asn Arg Ala Gly Gly Pro Val Ala Arg Ser Glu Glu Pro
 420 425 430
 Gly Ala Pro Leu Pro Val Ala Val Gly Thr Ala Glu Pro Gly Gly Ser
 435 440 445
 Met Lys Thr Thr Phe Thr Ile Glu Ile Lys Asp Gly Arg Gly Gln Ala
 450 455 460
 Ser Thr Gly Arg Val Leu Leu Pro Thr Gly Asn Gln Arg Ala Glu Leu

465 470 475 480
 Thr Leu Gly Leu Arg Ala Pro Pro Thr Leu Leu Ser Thr Ser Ser Gly
 485 490 495
 Gly Lys Ser Thr Ile Thr Arg Val Asn Ser Pro Gly Thr Leu Ala Arg
 500 505 510
 Leu Gly Ser Val Thr His Val Thr Ser Phe Ser His Ala Pro Pro Ser
 515 520 525
 Ser Arg Gly Gly Cys Ser Ile Lys Ala Ala Glu Asp Ala Gly Thr Pro
 530 535 540
 Val Ala His Pro Pro Ala Phe Ser Thr Arg Arg Arg Ser Ser Thr Gly
 545 550 555 560
 Thr Thr Arg Ser Thr Ser Leu Met Glu Pro Glu Pro Ala Glu Pro Leu
 565 570 575
 Ala Ala Ala Val Glu Ala Ala Asn Gly Ala Glu Gln Thr Arg Val Asn
 580 585 590
 Lys Ala Pro Glu Gly Arg Ser Pro Leu Ser Ala Glu Glu Leu Met Thr
 595 600 605
 Ile Glu Asp Glu Gly Val Leu Asp Lys Met Leu Asp Gln Ser Thr Asp
 610 615 620
 Phe Glu Glu Arg Lys Leu Ile Arg Ala Ala Leu Arg Glu Leu Arg Gln
 625 630 635 640
 Arg Lys Arg Asp Gln Arg Asp Lys Glu Arg Glu Arg Arg Leu Gln Glu
 645 650 655
 Ala Arg Gly Arg Pro Gly Glu Gly Arg Gly Asn Thr Ala Thr Glu Thr
 660 665 670
 Thr Thr Arg His Ser Gln Arg Ala Ala Asp Gly Ser Ala Val Ser Thr
 675 680 685
 Val Thr Lys Thr Glu Arg Leu Val His Ser Asn Asp Gly Thr Arg Thr
 690 695 700

Ala Arg Thr Thr Thr Val Glu Ser Ser Phe Val Arg Arg Ser Glu Asn
705 710 715 720
Gly Ser Gly Ser Thr Met Met Gln Thr Lys Thr Phe Ser Ser Ser Ser
725 730 735
Ser Ser Lys Lys Met Gly Ser Ile Phe Asp Arg Glu Asp Gln Ala Ser
740 745 750
Pro Arg Ala Gly Ser Leu Ala Ala Leu Glu Lys Arg Gln Ala Glu Lys
755 760 765
Lys Lys Glu Leu Met Lys Ala Gln Ser Leu Pro Lys Thr Ser Ala Ser
770 775 780
Gln Ala Arg Lys Ala Met Ile Glu Lys Leu Glu Lys Glu Gly Ala Ala
785 790 795 800
Gly Ser Pro Gly Gly Pro Arg Ala Ala Val Gln Arg Ser Thr Ser Phe
805 810 815
Gly Val Pro Asn Ala Asn Ser Ile Lys Gln Met Leu Leu Asp Trp Cys
820 825 830
Arg Ala Lys Thr Arg Gly Tyr Glu His Val Asp Ile Gln Asn Phe Ser
835 840 845
Ser Ser Trp Ser Asp Gly Met Ala Phe Cys Ala Leu Val His Asn Phe
850 855 860
Phe Pro Glu Ala Phe Asp Tyr Gly Gln Leu Ser Pro Gln Asn Arg Arg
865 870 875 880
Gln Asn Phe Glu Val Ala Phe Ser Ser Ala Glu Thr His Ala Asp Cys
885 890 895
Pro Gln Leu Leu Asp Thr Glu Asp Met Val Arg Leu Arg Glu Pro Asp
900 905 910
Trp Lys Cys Val Tyr Thr Tyr Ile Gln Glu Phe Tyr Arg Cys Leu Val
915 920 925
Gln Lys Gly Leu Val Lys Thr Lys Lys Ser

930

935

<210> 3813

<211> 661

<212> PRT

<213> Homo sapiens

<400> 3813

Met Glu Met Thr Glu Met Thr Gly Val Ser Leu Lys Arg Gly Ala Leu

1 5 10 15

Val Val Glu Asp Asn Asp Ser Gly Val Pro Val Glu Glu Thr Lys Lys

20 25 30

Gln Lys Leu Ser Glu Cys Ser Leu Thr Lys Gly Gln Asp Gly Leu Gln

35 40 45

Asn Asp Phe Leu Ser Ile Ser Glu Asp Val Pro Arg Pro Pro Asp Thr

50 55 60

Val Ser Thr Gly Lys Gly Gly Lys Asn Ser Glu Ala Gln Leu Glu Asp

65 70 75 80

Glu Glu Glu Glu Glu Glu Asp Gly Leu Ser Glu Glu Cys Glu Glu Glu

85 90 95

Glu Ser Glu Ser Phe Ala Asp Met Met Lys His Gly Leu Thr Glu Ala

100 105 110

Asp Val Gly Ile Thr Lys Phe Val Ser Ser His Gln Gly Phe Ser Gly

115 120 125

Ile Leu Lys Glu Arg Tyr Ser Asp Phe Val Val His Glu Ile Gly Lys

130 135 140

Asp Gly Arg Ile Ser His Leu Asn Asp Leu Ser Ile Pro Val Asp Glu

145 150 155 160

Glu Asp Pro Ser Glu Asp Ile Phe Thr Val Leu Thr Ala Glu Glu Lys
165 170 175
Gln Arg Leu Glu Glu Leu Gln Leu Phe Lys Asn Lys Glu Thr Ser Val
180 185 190
Ala Ile Glu Val Ile Glu Asp Thr Lys Glu Lys Arg Thr Ile Ile His
195 200 205
Gln Ala Ile Lys Ser Leu Phe Pro Gly Leu Glu Thr Lys Thr Glu Asp
210 215 220
Arg Glu Gly Lys Lys Tyr Ile Val Ala Tyr His Ala Ala Gly Glu Lys
225 230 235 240
Ala Leu Ala Asn Pro Arg Lys His Ser Trp Pro Lys Ser Arg Gly Ser
245 250 255
Tyr Cys His Phe Val Leu Tyr Lys Glu Asn Lys Asp Thr Met Asp Ala
260 265 270
Ile Asn Val Leu Ser Lys Tyr Leu Arg Val Lys Pro Asn Ile Phe Ser
275 280 285
Tyr Met Gly Thr Lys Asp Lys Arg Ala Ile Thr Val Gln Glu Ile Ala
290 295 300
Val Leu Lys Ile Thr Ala Gln Arg Leu Ala His Leu Asn Lys Cys Leu
305 310 315 320
Met Asn Phe Lys Leu Gly Asn Phe Ser Tyr Gln Lys Asn Pro Leu Lys
325 330 335
Leu Gly Glu Leu Gln Gly Asn His Phe Thr Val Val Leu Arg Asn Ile
340 345 350
Thr Gly Thr Asp Asp Gln Val Gln Gln Ala Met Asn Ser Leu Lys Glu
355 360 365
Ile Gly Phe Ile Asn Tyr Tyr Gly Met Gln Arg Phe Gly Thr Thr Ala
370 375 380
Val Pro Thr Tyr Gln Val Gly Arg Ala Ile Leu Gln Asn Ser Trp Thr

385 390 395 400
Glu Val Met Asp Leu Ile Leu Lys Pro Arg Ser Gly Ala Glu Lys Gly
 405 410 415
Tyr Leu Val Lys Cys Arg Glu Glu Trp Ala Lys Thr Lys Asp Pro Thr
 420 425 430
Ala Ala Leu Arg Lys Leu Pro Val Lys Arg Cys Val Glu Gly Gln Leu
 435 440 445
Leu Arg Gly Leu Ser Lys Tyr Gly Met Lys Asn Ile Val Ser Ala Phe
 450 455 460
Gly Ile Ile Pro Arg Asn Asn Arg Leu Met Tyr Ile His Ser Tyr Gln
465 470 475 480
Ser Tyr Val Trp Asn Asn Met Val Ser Lys Arg Ile Glu Asp Tyr Gly
 485 490 495
Leu Lys Pro Val Pro Gly Asp Leu Val Leu Lys Gly Ala Thr Ala Thr
 500 505 510
Tyr Ile Glu Glu Asp Asp Val Asn Asn Tyr Ser Ile His Asp Val Val
 515 520 525
Met Pro Leu Pro Gly Phe Asp Val Ile Tyr Pro Lys His Lys Ile Gln
 530 535 540
Glu Ala Tyr Arg Glu Met Leu Thr Ala Asp Asn Leu Asp Ile Asp Asn
545 550 555 560
Met Arg His Lys Ile Arg Asp Tyr Ser Leu Ser Gly Ala Tyr Arg Lys
 565 570 575
Ile Ile Ile Arg Pro Gln Asn Val Ser Trp Glu Val Val Ala Tyr Asp
 580 585 590
Asp Pro Lys Ile Pro Leu Phe Asn Thr Asp Val Asp Asn Leu Glu Gly
 595 600 605
Lys Thr Pro Pro Val Phe Ala Ser Glu Gly Lys Tyr Arg Ala Leu Lys
 610 615 620

Met Asp Phe Ser Leu Pro Pro Ser Thr Tyr Ala Thr Met Ala Ile Arg
 625 630 635 640
 Glu Val Leu Lys Met Asp Thr Ser Ile Lys Asn Gln Thr Gln Leu Asn
 645 650 655
 Thr Thr Trp Leu Arg
 660

<210> 3814

<211> 106

<212> PRT

<213> Homo sapiens

<400> 3814

Met Ser Gly Arg Leu Tyr Asn Thr Leu Gly Cys Asn Pro Arg Ser Thr
 1 5 10 15
 Ser Phe Tyr Leu Cys Ser Ser Lys Gln Ile Thr Ser Ser Leu Phe Ala
 20 25 30
 Leu Val Ser Ser Ser Ile Lys Trp Gly Leu Glu Glu Thr Asp Phe Ile
 35 40 45
 Glu Ser Leu Cys Glu Asn Glu Pro Val Tyr Cys Asn Glu Ser Arg Ile
 50 55 60
 Val Pro Leu Pro Gln Asn Lys Ser Ser Ile Thr Ile Ser Leu Leu Leu
 65 70 75 80
 Pro Ala Ser Pro Pro Pro Leu Pro Leu Pro Leu Leu Leu Leu Asn Glu
 85 90 95
 Arg Glu Arg Thr Thr Lys Ile Leu Phe Asn
 100 105

<210> 3815

<211> 544

<212> PRT

<213> Homo sapiens

<400> 3815

Met Ala Phe Gln Asp His Pro Glu Lys Ser Glu Gln Phe Glu Glu Leu

1 5 10 15

Gln Ser Ile Leu Lys Lys Gly Lys Leu Thr Phe Glu Asn Ile Met Glu

20 25 30

Lys Leu Arg Ile Lys Tyr Ser Glu Met Tyr Thr Ile Val Pro Ala Glu

35 40 45

Ile Glu Ser Gln Val Glu Glu Cys Arg Lys Ala Leu Glu Asp Ile Asp

50 55 60

Glu Lys Ile Ser Asn Glu Val Leu Lys Ser Ser Pro Ser Tyr Ala Met

65 70 75 80

Arg Arg Lys Ile Glu Glu Ile Asn Asn Gly Leu His Asn Val Glu Lys

85 90 95

Met Leu Gln Gln Lys Ser Lys Asn Ile Glu Lys Ala Gln Glu Ile Gln

100 105 110

Lys Lys Met Trp Asp Glu Leu Asp Leu Trp His Ser Lys Leu Asn Glu

115 120 125

Leu Asp Ser Glu Val Gln Asp Ile Val Glu Gln Asp Pro Gly Gln Ala

130 135 140

Gln Glu Trp Met Asp Asn Leu Met Ile Pro Phe Gln Gln Tyr Gln Gln

145 150 155 160

Val Ser Gln Arg Ala Glu Cys Arg Thr Ser Gln Leu Asn Lys Ala Thr

165 170 175

Val Lys Met Glu Glu Tyr Ser Asp Leu Leu Lys Ser Thr Glu Ala Trp			
180	185	190	
Ile Glu Asn Thr Ser His Leu Leu Ala Asn Pro Ala Asp Tyr Asp Ser			
195	200	205	
Leu Arg Thr Leu Ser His His Ala Ser Thr Val Gln Met Ala Leu Glu			
210	215	220	
Asp Ser Glu Gln Lys His Asn Leu Leu His Ser Ile Phe Thr Asp Leu			
225	230	235	240
Glu Asp Leu Ser Ile Ile Phe Glu Thr Asp Glu Leu Thr Gln Ser Ile			
245	250	255	
Gln Glu Leu Ser Asn Gln Val Thr Ala Leu Gln Gln Lys Ile Met Glu			
260	265	270	
Ser Leu Pro Gln Ile Gln Arg Met Ala Asp Asp Val Val Ala Ile Glu			
275	280	285	
Ser Glu Val Lys Ser Met Glu Lys Arg Val Ser Lys Ile Lys Thr Ile			
290	295	300	
Leu Leu Ser Lys Glu Ile Phe Asp Phe Ser Pro Glu Glu His Leu Lys			
305	310	315	320
His Gly Glu Val Ile Leu Glu Asn Ile Arg Pro Met Lys Lys Thr Ile			
325	330	335	
Ala Glu Ile Val Ser Tyr Gln Val Glu Leu Arg Leu Pro Gln Thr Gly			
340	345	350	
Met Lys Pro Leu Pro Val Phe Gln Arg Thr Asn Gln Leu Leu Gln Asp			
355	360	365	
Ile Lys Leu Leu Glu Asn Val Thr Gln Glu Gln Asn Glu Leu Leu Lys			
370	375	380	
Val Val Ile Lys Gln Thr Asn Glu Trp Asp Glu Glu Ile Glu Asn Leu			
385	390	395	400
Lys Gln Ile Leu Asn Asn Tyr Ser Ala Gln Phe Ser Leu Glu His Met			

	405		410		415
Ser	Pro	Asp	Gln	Ala	Asp
Lys	Leu	Pro	Gln	Leu	Gln
Gly	Glu	Ile	Glu		
	420		425		430
Arg	Met	Glu	Lys	Gln	Ile
Leu	Ser	Leu	Asn	Gln	Arg
Lys	Glu	Asp	Leu		
	435		440		445
Leu	Val	Asp	Leu	Lys	Ala
Thr	Val	Leu	Asn	Leu	His
Gln	His	Leu	Lys		
	450		455		460
Gln	Glu	Gln	Glu	Gly	Val
Glu	Arg	Asp	Arg	Leu	Pro
Ala	Val	Thr	Ser		
	465		470		475
					480
Glu	Glu	Gly	Gly	Val	Ala
Glu	Arg	Asp	Ala	Ser	Glu
Arg	Lys	Leu	Asn		
	485		490		495
Arg	Arg	Gly	Ser	Met	Ser
Tyr	Leu	Ala	Ala	Val	Glu
Glu	Glu	Glu	Val	Glu	
	500		505		510
Glu	Ser	Ser	Val	Lys	Ser
Asp	Val	Arg	Glu	Met	Ile
Phe	Leu	Leu	Lys		
	515		520		525
Phe	Val	Arg	Thr	Arg	Ser
Leu	Lys	Glu	Val	Asn	Glu
Lys	Ile	Leu	Lys		
	530		535		540

<210> 3816

<211> 1283

<212> PRT

<213> Homo sapiens

<400> 3816

Met	Leu	Tyr	Lys	Lys	Phe	Ser	Leu	Lys	Phe	Val	Ser	Ala	Arg	Lys	Lys
1				5					10					15	
Ala	Ala	Pro	Arg	Lys	Thr	Gly	Ala	Gln	Ala	Gly	Ile	Leu	Asp	Thr	Val
			20					25					30		

Cys Asn Gly Phe Gln Leu Val Gln Val Phe Gln Lys Glu Glu Ile Glu
 35 40 45
 Pro Leu Gln Gly Lys Gln Gln Asp Val Asn Trp Leu Gly Gln Gly Leu
 50 55 60
 Ile Gln Ser Ala Ala Lys Ser Thr Ser Thr Gln Gly Leu Glu His Asp
 65 70 75 80
 Leu Asp Asp Val Asn Ala Arg Trp Lys Thr Leu Asn Lys Lys Val Ala
 85 90 95
 Gln Arg Ala Ala Gln Leu Gln Glu Ala Leu Leu His Cys Gly Arg Phe
 100 105 110
 Gln Asp Ala Leu Glu Ser Leu Leu Ser Trp Met Val Asp Thr Glu Glu
 115 120 125
 Leu Val Ala Asn Gln Lys Pro Pro Ser Ala Glu Phe Lys Val Val Lys
 130 135 140
 Ala Gln Ile Gln Glu Gln Lys Leu Leu Gln Arg Leu Leu Asp Asp Arg
 145 150 155 160
 Lys Ser Thr Val Glu Val Ile Lys Arg Glu Gly Glu Lys Ile Ala Thr
 165 170 175
 Thr Ala Glu Pro Ala Asp Lys Val Lys Ile Leu Lys Gln Leu Ser Leu
 180 185 190
 Leu Asp Ser Arg Trp Glu Ala Leu Leu Asn Lys Ala Glu Thr Arg Asn
 195 200 205
 Arg Gln Leu Glu Gly Ile Ser Val Val Ala Gln Gln Phe His Glu Thr
 210 215 220
 Leu Glu Pro Leu Asn Glu Trp Leu Thr Thr Ile Glu Lys Arg Leu Val
 225 230 235 240
 Asn Cys Glu Pro Ile Gly Thr Gln Ala Ser Lys Leu Glu Glu Gln Ile
 245 250 255
 Ala Gln His Lys Ala Leu Glu Asp Asp Ile Ile Asn His Asn Lys His

260 265 270
Leu His Gln Ala Val Ser Ile Gly Gln Ser Leu Lys Val Leu Ser Ser
275 280 285
Arg Glu Asp Lys Asp Met Val Gln Ser Lys Leu Asp Phe Ser Gln Val
290 295 300
Trp Tyr Ile Glu Ile Gln Glu Lys Ser His Ser Arg Ser Glu Leu Leu
305 310 315 320
Gln Gln Ala Leu Cys Asn Ala Lys Ile Phe Gly Glu Asp Glu Val Glu
325 330 335
Leu Met Asn Trp Leu Asn Glu Val His Asp Lys Leu Ser Lys Leu Ser
340 345 350
Val Gln Asp Tyr Ser Thr Glu Gly Leu Trp Lys Gln Gln Ser Glu Leu
355 360 365
Arg Val Leu Gln Glu Asp Ile Leu Leu Arg Lys Gln Asn Val Asp Gln
370 375 380
Ala Leu Leu Asn Gly Leu Glu Leu Leu Lys Gln Thr Thr Gly Asp Glu
385 390 395 400
Val Leu Ile Ile Gln Asp Lys Leu Glu Ala Ile Lys Ala Arg Tyr Lys
405 410 415
Asp Ile Thr Lys Leu Ser Thr Asp Val Ala Lys Thr Leu Glu Gln Ala
420 425 430
Leu Gln Leu Ala Arg Arg Leu His Ser Thr His Glu Glu Leu Cys Thr
435 440 445
Trp Leu Asp Lys Val Glu Val Glu Leu Leu Ser Tyr Glu Thr Gln Val
450 455 460
Leu Lys Gly Glu Glu Ala Ser Gln Ala Gln Met Arg Pro Lys Glu Leu
465 470 475 480
Lys Lys Glu Ala Lys Asn Asn Lys Ala Leu Leu Asp Ser Leu Asn Glu
485 490 495

Val Ser Ser Ala Leu Leu Glu Leu Val Pro Trp Arg Ala Arg Glu Gly
500 505 510
Leu Glu Lys Met Val Ala Glu Asp Asn Glu Arg Tyr Arg Leu Val Ser
515 520 525
Asp Thr Ile Thr Gln Lys Val Glu Glu Ile Asp Ala Ala Ile Leu Arg
530 535 540
Ser Gln Gln Phe Asp Gln Ala Ala Asp Ala Glu Leu Ser Trp Ile Thr
545 550 555 560
Glu Thr Glu Lys Lys Leu Met Ser Leu Gly Asp Ile Arg Leu Glu Gln
565 570 575
Asp Gln Thr Ser Ala Gln Leu Gln Val Gln Lys Thr Phe Thr Met Glu
580 585 590
Ile Leu Arg His Lys Asp Ile Ile Asp Asp Leu Val Lys Ser Gly His
595 600 605
Lys Ile Met Thr Ala Cys Ser Glu Glu Glu Lys Gln Ser Met Lys Lys
610 615 620
Lys Leu Asp Lys Val Leu Lys Asn Tyr Asp Thr Ile Cys Gln Ile Asn
625 630 635 640
Ser Glu Arg Tyr Leu Gln Leu Glu Arg Ala Gln Ser Leu Val Asn Gln
645 650 655
Phe Trp Glu Thr Tyr Glu Glu Leu Trp Pro Trp Leu Thr Glu Thr Gln
660 665 670
Ser Ile Ile Ser Gln Leu Pro Ala Pro Ala Leu Glu Tyr Glu Thr Leu
675 680 685
Arg Gln Gln Gln Glu Glu His Arg Gln Leu Arg Glu Leu Ile Ala Glu
690 695 700
His Lys Pro His Ile Asp Lys Met Asn Lys Thr Gly Pro Gln Leu Leu
705 710 715 720
Glu Leu Ser Pro Gly Glu Gly Phe Ser Ile Gln Glu Lys Tyr Val Ala

725 730 735
Ala Asp Thr Leu Tyr Ser Gln Ile Lys Glu Asp Val Lys Lys Arg Ala
740 745 750
Val Ala Leu Asp Glu Ala Ile Ser Gln Ser Thr Gln Phe His Asp Lys
755 760 765
Ile Asp Gln Ile Leu Glu Ser Leu Glu Arg Ile Val Glu Arg Leu Arg
770 775 780
Gln Pro Pro Ser Ile Ser Ala Glu Val Glu Lys Ile Lys Glu Gln Ile
785 790 795 800
Ser Glu Asn Lys Asn Val Ser Val Asp Met Glu Lys Leu Gln Pro Leu
805 810 815
Tyr Glu Thr Leu Lys Gln Arg Gly Glu Glu Met Ile Ala Arg Ser Gly
820 825 830
Gly Thr Asp Lys Asp Ile Ser Ala Lys Ala Val Gln Asp Lys Leu Asn
835 840 845
Gln Met Val Phe Ile Trp Glu Asn Ile His Thr Leu Val Glu Glu Arg
850 855 860
Glu Ala Lys Leu Leu Asp Val Met Glu Leu Ala Glu Lys Phe Trp Cys
865 870 875 880
Asp His Met Ser Leu Ile Val Thr Ile Lys Asp Thr Gln Asp Phe Ile
885 890 895
Arg Asp Leu Glu Asp Pro Gly Ile Asp Pro Ser Val Val Lys Gln Gln
900 905 910
Gln Glu Ala Ala Glu Thr Ile Arg Glu Glu Ile Asp Gly Leu Gln Glu
915 920 925
Glu Leu Asp Ile Val Ile Asn Leu Gly Ser Glu Leu Ile Ala Ala Cys
930 935 940
Gly Glu Pro Asp Lys Pro Ile Val Lys Lys Ser Ile Asp Glu Leu Asn
945 950 955 960

Ser Ala Trp Asp Ser Leu Asn Lys Ala Trp Lys Asp Arg Ile Asp Lys
965 970 975
Leu Glu Glu Ala Met Gln Ala Ala Val Gln Tyr Gln Asp Gly Leu Gln
980 985 990
Ala Val Phe Asp Trp Val Asp Ile Ala Gly Gly Lys Leu Ala Ser Met
995 1000 1005
Ser Pro Ile Gly Thr Asp Leu Glu Thr Val Lys Gln Gln Ile Glu Glu
1010 1015 1020
Leu Lys Gln Phe Lys Ser Glu Ala Tyr Gln Gln Gln Ile Glu Met Glu
1025 1030 1035 1040
Arg Leu Asn His Gln Ala Glu Leu Leu Leu Lys Lys Val Thr Glu Glu
1045 1050 1055
Ser Asp Lys His Thr Val Gln Asp Pro Leu Met Glu Leu Lys Leu Ile
1060 1065 1070
Trp Asp Ser Leu Glu Glu Arg Ile Ile Asn Arg Gln His Lys Leu Glu
1075 1080 1085
Gly Ala Leu Leu Ala Leu Gly Gln Phe Gln His Ala Leu Asp Glu Leu
1090 1095 1100
Leu Ala Trp Leu Thr His Thr Glu Gly Leu Leu Ser Glu Gln Lys Pro
1105 1110 1115 1120
Val Gly Gly Asp Pro Lys Ala Ile Glu Ile Glu Leu Ala Lys His His
1125 1130 1135
Val Leu Gln Asn Asp Val Leu Ala His Gln Ser Thr Val Glu Ala Val
1140 1145 1150
Asn Lys Ala Gly Asn Asp Leu Ile Glu Ser Ser Ala Gly Glu Glu Ala
1155 1160 1165
Ser Asn Leu Gln Asn Lys Leu Glu Val Leu Asn Gln Arg Trp Gln Asn
1170 1175 1180
Val Leu Glu Lys Thr Glu Gln Arg Lys Gln Gln Leu Asp Gly Ala Leu

1185 1190 1195 1200
 Arg Gln Ala Lys Gly Phe His Gly Glu Ile Glu Asp Leu Gln Gln Trp
 1205 1210 1215
 Leu Thr Asp Thr Glu Arg His Leu Leu Ala Ser Lys Pro Leu Gly Gly
 1220 1225 1230
 Leu Pro Glu Thr Ala Lys Glu Gln Leu Asn Val His Met Glu Val Cys
 1235 1240 1245
 Ala Ala Phe Glu Ala Lys Glu Glu Thr Tyr Lys Ser Leu Met Gln Lys
 1250 1255 1260
 Gly Gln Gln Met Leu Ala Arg Cys Pro Lys Ser Ala Glu Thr Asn Ile
 1265 1270 1275 1280
 Asp Gln Asp

<210> 3817

<211> 126

<212> PRT

<213> Homo sapiens

<400> 3817

Met Ile Ser Phe His Val Ile Phe Leu Ser Leu Gly Arg Gly Lys Leu
 1 5 10 15
 Phe Leu Pro Val Asn Phe Cys Phe Leu Lys Leu Lys Asn Ser Gln Val
 20 25 30
 Arg Ile Pro Lys Asp Phe Thr Cys Asn Leu His Val Leu Phe Arg Thr
 35 40 45
 Val Gln Gly Glu Asp Arg Asn Thr Met Phe Arg Gly His Trp Ser Ile
 50 55 60

<210> 3818

<211> 123

<212> PRT

<213> Homo sapiens

<400> 3818

出証特 2 0 0 4 - 3 0 5 9 6 6 1

100 105 110
 Ile Ile Leu Phe Phe Ser Phe Ile Leu Trp Met
 115 120

<210> 3819

<211> 538

<212> PRT

<213> Homo sapiens

<400> 3819

Met Glu Leu Gly Leu Arg Trp Val Leu Leu Val Ala Ile Leu Glu Gly
 1 5 10 15
 Val His Cys Asp Val Gln Leu Met Glu Ser Gly Gly Gly Leu Val Lys
 20 25 30
 Ala Gly Gly Ser Leu Arg Leu Ser Cys Ile Ala Ser Gly Phe Thr Ile
 35 40 45
 Ser Ser Tyr Ser Met Leu Trp Val Arg Gln Ser Pro Gly Lys Gly Leu
 50 55 60
 Glu Trp Leu Ser Ser Ile Ser Glu Gly Gly Gly Arg Ile Leu Tyr Thr
 65 70 75 80
 Asp Ser Val Lys Asp Arg Phe Ile Val Ser Arg Asp Asn Ala Arg Gln
 85 90 95
 Ser Phe Phe Leu Gln Met Asn Asn Leu Arg Val Asp Asp Thr Ala Val
 100 105 110
 Tyr Phe Cys Ala Arg Glu Arg Thr His Phe Asp Phe Trp Ser Asp Tyr
 115 120 125
 Ser Asn Asp Tyr Phe Ser Phe Asn Met Asp Val Trp Gly Arg Gly Ala
 130 135 140

Thr Val Thr Val Ser Ser Ala Pro Thr Lys Ala Pro Asp Val Phe Pro
 145 150 155 160
 Ile Ile Ser Gly Cys Arg His Pro Lys Asp Asn Ser Pro Val Val Leu
 165 170 175
 Ala Cys Leu Ile Thr Gly Tyr His Pro Thr Ser Val Thr Val Thr Trp
 180 185 190
 Tyr Met Gly Thr Gln Ser Gln Pro Gln Arg Thr Phe Pro Glu Ile Gln
 195 200 205
 Arg Arg Asp Ser Tyr Tyr Met Thr Ser Ser Gln Leu Ser Thr Pro Leu
 210 215 220
 Gln Gln Trp Arg Gln Gly Glu Tyr Lys Cys Val Val Gln His Thr Ala
 225 230 235 240
 Ser Lys Ser Lys Lys Glu Ile Phe Arg Trp Pro Glu Ser Pro Lys Ala
 245 250 255
 Gln Ala Ser Ser Val Pro Thr Ala Gln Pro Gln Ala Glu Gly Ser Leu
 260 265 270
 Ala Lys Ala Thr Thr Ala Pro Ala Thr Thr Arg Asn Thr Gly Arg Gly
 275 280 285
 Gly Glu Glu Lys Lys Lys Glu Lys Glu Lys Glu Glu Gln Glu Glu Arg
 290 295 300
 Glu Thr Lys Thr Pro Glu Cys Pro Ser His Thr Gln Pro Leu Gly Val
 305 310 315 320
 Tyr Leu Leu Thr Pro Ala Val Gln Asp Leu Trp Leu Arg Asp Lys Ala
 325 330 335
 Thr Phe Thr Cys Phe Val Val Gly Ser Asp Leu Lys Asp Ala His Leu
 340 345 350
 Thr Trp Glu Val Ala Gly Lys Val Pro Thr Gly Gly Val Glu Glu Gly
 355 360 365
 Leu Leu Glu Arg His Ser Asn Gly Ser Gln Ser Gln His Ser Arg Leu

370 375 380
Thr Leu Pro Arg Ser Leu Trp Asn Ala Gly Thr Ser Val Thr Cys Thr
385 390 395 400
Leu Asn His Pro Ser Leu Pro Pro Gln Arg Leu Met Ala Leu Arg Glu
405 410 415
Pro Ala Ala Gln Ala Pro Val Lys Leu Ser Leu Asn Leu Leu Ala Ser
420 425 430
Ser Asp Pro Pro Glu Ala Ala Ser Trp Leu Leu Cys Glu Val Ser Gly
435 440 445
Phe Ser Pro Pro Asn Ile Leu Leu Met Trp Leu Glu Asp Gln Arg Glu
450 455 460
Val Asn Thr Ser Gly Phe Ala Pro Ala Arg Pro Pro Pro Gln Pro Arg
465 470 475 480
Ser Thr Thr Phe Trp Ala Trp Ser Val Leu Arg Val Pro Ala Pro Pro
485 490 495
Ser Pro Gln Pro Ala Thr Tyr Thr Cys Val Val Ser His Glu Asp Ser
500 505 510
Arg Thr Leu Leu Asn Ala Ser Arg Ser Leu Glu Val Ser Cys Glu Ser
515 520 525
Pro Pro Gly Pro Gly Leu Gly Arg Gly Leu
530 535

<210> 3820

<211> 1042

<212> PRT

<213> Homo sapiens

<400> 3820

Met Asn Leu His Leu Pro Ser Leu Pro Phe Thr Asn Gly Ser Ser Ser
 1 5 10 15
 Phe Phe Glu Asp Phe Gln Glu Tyr Cys Asn Ser Asn Glu Trp Gln Val
 20 25 30
 Tyr Ile Glu Lys Tyr Ile Val Pro Tyr Met Lys Gln Tyr Glu Ala His
 35 40 45
 Thr Phe Tyr Asp Gly His Glu Asn Met Ala Leu Tyr Trp Lys Asp Cys
 50 55 60
 Tyr Glu Ala Leu Met Val Asn Met His Lys Arg Asp Arg Glu Gly Gly
 65 70 75 80
 Glu Ser Lys Leu Lys Phe Gln Glu Leu Phe Val Glu Pro Phe Asn Arg
 85 90 95
 Lys Ala Arg Gln Glu Asn Leu Arg Tyr Asn Asn Met Leu Lys Gln Leu
 100 105 110
 Ser Ser Gln Gln Leu Ala Thr Leu Arg Arg Trp Lys Ala Ile Gln Leu
 115 120 125
 Tyr Leu Thr Cys Glu Arg Gly Pro Trp Ala Lys Arg Lys Gln Asn Pro
 130 135 140
 Ile His Trp Lys Leu Ala Asn Val Glu Asn Tyr Ser Arg Met Arg Leu
 145 150 155 160
 Lys Leu Val Pro Asn Tyr Asn Phe Lys Thr His Glu Glu Ala Ser Ala
 165 170 175
 Leu Arg Asp Asn Leu Gly Ile Gln His Ser Gln Pro Ser Ser Asp Thr
 180 185 190
 Leu Leu Leu Glu Val Val Lys Gln Val Lys Val Ser Asp Met Val Glu
 195 200 205
 Asp Lys Leu Asp Leu Pro Glu Glu Asp Ile Thr Ala Arg Val Asn Val
 210 215 220
 Asp Glu Lys Glu Glu Gln Asp Gln Lys Glu Lys Leu Val Leu Met Glu

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Thr Leu His Ile Gln Leu Gln Ser Gly Arg Phe Asp Cys Ala Asp Arg
465 470 475 480
Gln Phe His Ser Ile Pro Ala Thr Trp Gln Ala Leu Met Asp Asn Pro
485 490 495
Tyr Asp Val Lys Glu Leu Ile Pro Glu Phe Phe Tyr Phe Pro Glu Phe
500 505 510
Leu Glu Asn Gln Asn Gln Phe Asn Leu Gly Arg Leu Gln Ile Ser Lys
515 520 525
Glu Leu Val Asn Asp Val Ile Leu Pro Lys Trp Ala Lys Ser Ala Glu
530 535 540
Asp Phe Ile Tyr Lys His Arg Lys Ala Leu Glu Ser Glu Tyr Val Ser
545 550 555 560
Ala His Leu His Glu Trp Ile Asp Leu Ile Phe Gly Tyr Lys Gln Arg
565 570 575
Gly Pro Ala Ala Val Glu Ala Leu Asn Val Phe Tyr Tyr Cys Ser Tyr
580 585 590
Glu Gly Ala Val Asp Leu Asp Ala Leu Thr Asp Glu Lys Glu Arg Lys
595 600 605
Ala Leu Glu Gly Met Ile Asn Asn Phe Gly Gln Thr Pro Cys Gln Leu
610 615 620
Leu Lys Glu Pro His Pro Pro Arg Leu Ser Ala Glu Glu Ala Val Gln
625 630 635 640
Lys Pro Thr Lys Ile Asp Thr Ser Thr Leu Asn Leu Phe Gln His Leu
645 650 655
Pro Glu Leu Lys Ser Phe Phe Ile Glu Gly Ile Ser Asp Gly Ile Pro
660 665 670
Leu Leu Lys Ala Thr Val Pro Lys Asn Gln Tyr Arg Ser Phe Met Ser
675 680 685
Gln Gly Ser Pro Glu Leu Leu Ile Thr Ile Ser Met Asn Tyr Val Ile

690	695	700
Gly Thr His Gly Trp Leu Pro Tyr Asp Arg Asn Ile Ser Asn Tyr Phe		
705	710	715
Thr Phe Ile Lys Asp Gln Thr Val Thr Asn Pro Lys Thr Gln Arg Ser		
725	730	735
Ile Asn Gly Ser Phe Ala Pro Gly Leu Glu Ile Thr Ser Lys Leu Phe		
740	745	750
Val Val Ser His Asp Ala Lys Leu Leu Phe Ser Ala Gly Tyr Trp Asp		
755	760	765
Asn Ser Ile Gln Val Met Ser Leu Thr Lys Gly Lys Ile Ile Ser His		
770	775	780
Ile Ile Arg His Met Asp Ile Val Thr Cys Leu Ala Thr Asp Tyr Cys		
785	790	795
Gly Ile His Leu Ile Ser Gly Ser Arg Asp Thr Thr Cys Met Ile Trp		
805	810	815
Gln Ile Thr Gln Gln Gly Gly Val Pro Val Gly Leu Ala Ser Lys Pro		
820	825	830
Phe Gln Ile Leu Tyr Gly His Thr Asn Glu Val Leu Ser Val Gly Ile		
835	840	845
Ser Thr Glu Leu Asp Met Ala Val Ser Gly Ser Arg Asp Gly Thr Val		
850	855	860
Ile Ile His Thr Ile Gln Lys Gly Gln Tyr Met Arg Thr Leu Arg Pro		
865	870	875
Pro Cys Glu Ser Ser Leu Phe Leu Thr Ile Pro Asn Leu Ala Ile Ser		
885	890	895
Trp Glu Gly His Ile Val Val Tyr Ser Ser Thr Glu Glu Lys Thr Thr		
900	905	910
Leu Lys Asp Lys Asn Ala Leu His Leu Phe Ser Ile Asn Gly Lys Tyr		
915	920	925

Leu Gly Ser Gln Ile Leu Lys Glu Gln Val Ser Asp Ile Cys Ile Ile
 930 935 940
 Gly Glu His Ile Val Thr Gly Ser Ile Gln Gly Phe Leu Ser Ile Arg
 945 950 955 960
 Asp Leu His Ser Leu Asn Leu Ser Ile Asn Pro Leu Ala Met Arg Leu
 965 970 975
 Pro Ile His Cys Val Cys Val Thr Lys Glu Tyr Ser His Ile Leu Val
 980 985 990
 Gly Leu Glu Asp Gly Lys Leu Ile Val Val Gly Val Gly Lys Pro Ala
 995 1000 1005
 Glu Met Arg Ser Gly Gln Leu Ser Arg Lys Phe Trp Gly Ser Ser Lys
 1010 1015 1020
 Arg Leu Ser Gln Ile Ser Ala Gly Glu Thr Glu Tyr Asn Thr Gln Asp
 1025 1030 1035 1040
 Ser Lys

<210> 3821

<211> 287

<212> PRT

<213> Homo sapiens

<400> 3821

Met Ala Asn Arg Leu Phe Gly Glu Lys Ser Cys Asp Phe Leu Ser Ser
 1 5 10 15
 Phe Arg Asp Ser Cys Gln Lys Phe Tyr Gln Ala Glu Met Glu Glu Leu
 20 25 30
 Asp Phe Ile Ser Ala Val Glu Lys Ser Arg Lys His Ile Asn Thr Trp

35	40	45
Val Ala Glu Lys Thr Glu Gly Lys Ile Ala Glu Leu Leu Ser Pro Gly		
50	55	60
Ser Val Asp Pro Leu Thr Arg Leu Val Leu Val Asn Ala Val Tyr Phe		
65	70	75
Arg Gly Asn Trp Asp Glu Gln Phe Asp Lys Glu Asn Thr Glu Glu Arg		
85	90	95
Leu Phe Lys Val Ser Lys Asn Glu Glu Lys Pro Val Gln Met Met Phe		
100	105	110
Lys Gln Ser Thr Phe Lys Lys Thr Tyr Ile Gly Glu Ile Phe Thr Gln		
115	120	125
Ile Leu Val Leu Pro Tyr Val Gly Lys Glu Leu Asn Met Ile Ile Met		
130	135	140
Leu Pro Asp Glu Thr Thr Asp Leu Arg Thr Val Glu Lys Glu Leu Thr		
145	150	155
Tyr Glu Lys Phe Val Glu Trp Thr Arg Leu Asp Met Met Asp Glu Glu		
165	170	175
Glu Val Glu Val Ser Leu Pro Arg Phe Lys Leu Glu Glu Ser Tyr Asp		
180	185	190
Met Glu Ser Val Leu Arg Asn Leu Gly Met Thr Asp Ala Phe Glu Leu		
195	200	205
Gly Lys Ala Asp Phe Ser Gly Met Ser Gln Thr Asp Leu Ser Leu Ser		
210	215	220
Lys Val Val His Lys Ser Phe Val Glu Val Asn Glu Glu Gly Thr Glu		
225	230	235
Ala Ala Ala Ala Thr Ala Ala Ile Met Met Met Arg Cys Ala Arg Phe		
245	250	255
Val Pro Arg Phe Cys Ala Asp His Pro Phe Leu Phe Phe Ile Gln His		
260	265	270

Ser Lys Thr Asn Gly Ile Leu Phe Cys Gly Arg Phe Ser Ser Pro
 275 280 285

<210> 3822

<211> 145

<212> PRT

<213> Homo sapiens

<400> 3822

Met Val Leu Gln Thr Gln Val Phe Ile Ser Leu Leu Leu Trp Ile Ser
 1 5 10 15
 Gly Ala Cys Gly Asp Thr Val Met Thr Gln Ser Pro Asp Ser Leu Ala
 20 25 30
 Val Ser Leu Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser
 35 40 45
 Val Leu Ser Ser Ser Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln
 50 55 60
 Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
 65 70 75 80
 Ala Ser Gly Val Pro Glu Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
 85 90 95
 Phe Thr Leu Thr Ile Asp Ser Leu Gln Ala Glu Asp Val Ala Val Tyr
 100 105 110
 Tyr Cys Gln Gln Tyr Tyr Ser Ser Pro Gln Thr Phe Gly Gln Gly Thr
 115 120 125
 Lys Leu Glu Ile Lys Arg Lys Phe Phe Phe Pro Leu Ile Leu His Cys
 130 135 140
 Phe

145

<210> 3823

<211> 405

<212> PRT

<213> Homo sapiens

<400> 3823

Met Ser Ile Glu Ile Pro Ala Gly Leu Thr Glu Leu Leu Gln Gly Phe
 1 5 10 15
 Thr Val Glu Val Leu Arg His Gln Pro Ala Asp Leu Leu Glu Phe Ala
 20 25 30
 Leu Gln His Phe Thr Arg Leu Gln Gln Glu Asn Glu Arg Lys Gly Thr
 35 40 45
 Ala Arg Phe Gly His Glu Gly Arg Thr Trp Gly Asp Leu Gly Ala Ala
 50 55 60
 Ala Gly Gly Gly Thr Pro Ser Lys Gly Val Asn Phe Ala Glu Glu Ala
 65 70 75 80
 Ala Pro Ala Asp Ala Gly Ala Phe Asn Ala Pro Val Ile Asn Arg Phe
 85 90 95
 Thr Arg Arg Ala Ser Val Cys Ala Glu Ala Tyr Asn Pro Asp Glu Glu
 100 105 110
 Glu Asp Asp Ala Glu Ser Arg Ile Ile His Pro Lys Thr Asp Asp Gln
 115 120 125
 Arg Asn Arg Leu Gln Glu Ala Cys Lys Asp Ile Leu Leu Phe Lys Asn
 130 135 140
 Leu Asp Pro Glu Gln Met Ser Gln Val Leu Asp Ala Met Phe Glu Lys
 145 150 155 160

Leu Val Lys Asp Gly Glu His Val Ile Asp Gln Gly Asp Asp Gly Asp
 165 170 175
 Asn Phe Tyr Val Ile Asp Arg Gly Thr Phe Asp Ile Tyr Val Lys Cys
 180 185 190
 Asp Gly Val Gly Arg Cys Val Gly Asn Tyr Asp Asn Arg Gly Ser Phe
 195 200 205
 Gly Glu Leu Ala Leu Met Tyr Asn Thr Pro Arg Ala Ala Thr Ile Thr
 210 215 220
 Ala Thr Ser Pro Gly Ala Leu Trp Gly Leu Asp Arg Val Thr Phe Arg
 225 230 235 240
 Arg Ile Ile Val Lys Asn Asn Ala Lys Lys Arg Lys Met Tyr Glu Ser
 245 250 255
 Phe Ile Glu Ser Leu Pro Phe Leu Lys Ser Leu Glu Phe Ser Glu Arg
 260 265 270
 Leu Lys Val Val Asp Val Ile Gly Thr Lys Val Tyr Asn Asp Gly Glu
 275 280 285
 Gln Ile Ile Ala Gln Gly Asp Ser Ala Asp Ser Phe Phe Ile Val Glu
 290 295 300
 Ser Gly Glu Val Lys Ile Thr Met Lys Arg Lys Gly Lys Ser Glu Val
 305 310 315 320
 Glu Glu Asn Gly Val Val Glu Ile Ala Arg Cys Ser Arg Gly Gln Tyr
 325 330 335
 Phe Gly Glu Leu Ala Leu Val Thr Asn Lys Pro Arg Ala Ala Ser Ala
 340 345 350
 His Ala Ile Gly Thr Val Lys Cys Leu Ala Met Asp Val Gln Ala Phe
 355 360 365
 Glu Arg Leu Leu Gly Pro Cys Met Glu Ile Met Lys Arg Asn Ile Ala
 370 375 380
 Thr Tyr Glu Glu Gln Leu Val Ala Leu Phe Gly Thr Asn Met Asp Ile

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Phe Phe Ile Glu Ser Cys Ile Ala Leu Phe Val Ser Phe Ile Ile Asn
145 150 155 160
Val Phe Val Val Ser Val Phe Ala Glu Ala Phe Phe Gly Lys Thr Asn
165 170 175
Glu Gln Val Val Glu Val Cys Thr Asn Thr Ser Ser Pro His Ala Gly
180 185 190
Leu Phe Pro Lys Asp Asn Ser Thr Leu Ala Val Asp Ile Tyr Lys Gly
195 200 205
Gly Val Val Leu Gly Cys Tyr Phe Gly Pro Ala Ala Leu Tyr Ile Trp
210 215 220
Ala Val Gly Ile Leu Ala Ala Gly Gln Ser Ser Thr Met Thr Gly Thr
225 230 235 240
Tyr Ser Gly Gln Phe Val Met Glu Gly Phe Leu Asn Leu Lys Trp Ser
245 250 255
Arg Phe Ala Arg Val Val Leu Thr Arg Ser Ile Ala Ile Ile Pro Thr
260 265 270
Leu Leu Val Ala Val Phe Gln Asp Val Glu His Leu Thr Gly Met Asn
275 280 285
Asp Phe Leu Asn Val Leu Gln Ser Leu Gln Leu Pro Phe Ala Leu Ile
290 295 300
Pro Ile Leu Thr Phe Thr Ser Leu Arg Pro Val Met Ser Asp Phe Ala
305 310 315 320
Asn Gly Leu Gly Trp Arg Ile Ala Gly Gly Ile Leu Val Leu Ile Ile
325 330 335
Cys Ser Ile Asn Met Tyr Phe Val Val Val Tyr Val Arg Asp Leu Gly
340 345 350
His Val Ala Leu Tyr Val Val Ala Ala Val Val Ser Val Ala Tyr Leu
355 360 365
Gly Phe Val Phe Tyr Leu Gly Trp Gln Cys Leu Ile Ala Leu Gly Met

370	375	380
Ser Phe Leu Asp Cys Gly His Thr Val Ser Ile Ser Lys Gly Leu Leu		
385	390	395
Thr Glu Glu Ala Thr Arg Gly Tyr Val Lys		400
	405	410

<210> 3825

<211> 156

<212> PRT

<213> Homo sapiens

<400> 3825

Met Asp Gln Glu Glu Gly Leu Lys Ala Leu Asp Asn Ile Val Thr Gln		
1	5	10
Phe Asn Ala Tyr Glu Asp Phe Leu Asp Ser Gln Ile Thr Thr Val Asp		
	20	25
Leu Tyr Tyr Leu Glu Asp Glu Thr Leu Ala Arg Gln Leu Val Glu Leu		
	35	40
Gly Tyr Arg Gly Thr Gly Glu Arg Val Lys Arg Glu Asp Phe Glu Ala		
	50	55
Arg Lys Ala Ala Ile Glu Ile Ala Arg Leu Ala Glu Arg Ala Gln Gln		
65	70	75
Lys Thr Leu Thr Ser Ala Gly Lys Asp Leu Gln Asp Asn Phe Leu Thr		
	85	90
Ala Leu Ala Met Arg Glu Glu Asp Asn Arg Ser Gly Lys Leu Ser Ala		
	100	105
Gly Val Gln Trp His His Leu Gly Ser Leu Gln Pro Leu Pro Pro Gly		
	115	120
		125

Phe Lys Glu Phe Ser Cys Phe Ser Leu Pro Ser Gly Trp Asp Tyr Arg

130

135

140

His Ala Pro Pro His Pro Val Arg Asp Leu Tyr Ser

145

150

155

<210> 3826

<211> 337

<212> PRT

<213> Homo sapiens

<400> 3826

Met Tyr Ala Met Asn Leu Ala Arg Tyr Lys Tyr Cys Pro Asp Ile Lys

1

5

10

15

Glu Lys Gly Leu Ser Gly Ser Pro Arg Leu Ile Leu Phe Thr Ser Ala

20

25

30

Glu Cys His Tyr Ser Met Lys Lys Ala Ala Ser Phe Leu Gly Ile Gly

35

40

45

Thr Glu Asn Val Cys Phe Val Glu Thr Asp Gly Arg Gly Lys Met Ile

50

55

60

Pro Glu Glu Leu Glu Lys Gln Val Trp Gln Ala Arg Lys Glu Gly Ala

65

70

75

80

Ala Pro Phe Leu Val Cys Ala Thr Ser Gly Thr Thr Val Leu Gly Ala

85

90

95

Phe Asp Pro Leu Asp Glu Ile Ala Asp Ile Cys Glu Arg His Ser Leu

100

105

110

Trp Leu His Val Asp Ala Ser Trp Gly Gly Ser Ala Leu Met Ser Arg

115

120

125

Lys His Arg Lys Leu Leu His Gly Ile His Arg Ala Asp Ser Val Ala

130	135	140
Trp Asn Pro His Lys Met Leu Met Ala Gly Ile Gln Cys Cys Ala Leu		
145	150	155
Leu Val Lys Asp Lys Ser Asp Leu Leu Lys Lys Cys Tyr Ser Ala Lys		
165	170	175
Ala Ser Tyr Leu Phe Gln Gln Asp Lys Phe Tyr Asp Val Ser Tyr Asp		
180	185	190
Thr Gly Asp Lys Ser Ile Gln Cys Ser Arg Arg Pro Asp Ala Phe Lys		
195	200	205
Phe Trp Met Thr Trp Lys Ala Leu Gly Thr Leu Gly Leu Glu Glu Arg		
210	215	220
Val Asn Arg Ala Leu Ala Leu Ser Arg Tyr Leu Val Asp Glu Ile Lys		
225	230	235
Lys Arg Glu Gly Phe Lys Leu Leu Met Glu Pro Glu Tyr Ala Asn Ile		
245	250	255
Cys Phe Trp Tyr Ile Pro Pro Ser Leu Arg Glu Met Glu Glu Gly Pro		
260	265	270
Glu Phe Trp Ala Lys Leu Asn Leu Val Ala Pro Ala Ile Lys Glu Arg		
275	280	285
Met Met Lys Lys Gly Ser Leu Met Leu Gly Tyr Gln Pro His Arg Gly		
290	295	300
Lys Val Asn Phe Phe Arg Gln Val Val Ile Ser Pro Gln Val Ser Arg		
305	310	315
Glu Asp Met Asp Phe Leu Leu Asp Glu Ile Asp Leu Leu Gly Lys Asp		
325	330	335
Met		

<210> 3827

<211> 107

<212> PRT

<213> Homo sapiens

<400> 3827

Met Ser His Pro Ser Phe Leu Leu Phe Phe Cys Phe Phe Leu Phe Leu

1 5 10 15

Phe Phe Glu Lys Gln Phe His Ser Cys Cys Pro Asn Trp Ser Gly Val

20 25 30

Gln Trp Arg Asp Leu Gly Ser Leu Gln Pro Pro Pro Pro Gly Phe Lys

35 40 45

Arg Phe Ser Cys Leu Asn Leu Pro Ser Ser Trp Asp Tyr Arg Cys Leu

50 55 60

Pro Pro Arg Leu Ala Asn Phe Val Phe Leu Val Glu Thr Gly Phe Leu

65 70 75 80

His Val Gly Gln Ala Gly Leu Glu Leu Pro Thr Ser Gly Asp Arg Leu

85 90 95

Pro Gln Pro Pro Lys Val Val Gly Leu Gln Val

100 105

<210> 3828

<211> 318

<212> PRT

<213> Homo sapiens

<400> 3828

Met Ile Lys Leu Trp Thr Asn Arg Asp Leu His Ile Ile Val Met Val

1	5	10	15
Lys Asn Pro Ala Lys Met Ser Leu Tyr Pro Ser Leu Glu Asp Leu Lys			
20	25	30	
Val Asp Lys Val Ile Gln Ala Gln Thr Ala Phe Ser Ala Asn Pro Ala			
35	40	45	
Asn Pro Ala Ile Leu Ser Glu Ala Ser Ala Pro Ile Pro His Asp Gly			
50	55	60	
Asn Leu Tyr Pro Arg Leu Tyr Pro Glu Leu Ser Gln Tyr Met Gly Leu			
65	70	75	80
Ser Leu Asn Glu Glu Glu Ile Arg Ala Asn Val Ala Val Val Ser Gly			
85	90	95	
Ala Pro Leu Gln Gly Leu Val Ala Arg Pro Ser Ser Ile Asn Tyr Met			
100	105	110	
Val Ala Pro Val Thr Gly Asn Asp Val Gly Ile Arg Arg Ala Glu Ile			
115	120	125	
Lys Gln Gly Ile Arg Glu Val Ile Leu Cys Lys Asp Gln Asp Gly Lys			
130	135	140	
Ile Gly Leu Arg Leu Lys Ser Ile Asp Asn Gly Ile Phe Val Gln Leu			
145	150	155	160
Val Gln Ala Asn Ser Pro Ala Ser Leu Val Gly Leu Arg Phe Gly Asp			
165	170	175	
Gln Val Leu Gln Ile Asn Gly Glu Asn Cys Ala Gly Trp Ser Ser Asp			
180	185	190	
Lys Ala His Lys Val Leu Lys Gln Ala Phe Gly Glu Lys Ile Thr Met			
195	200	205	
Thr Ile Arg Asp Arg Pro Phe Glu Arg Thr Ile Thr Met His Lys Asp			
210	215	220	
Ser Thr Gly His Val Gly Phe Ile Phe Lys Asn Gly Lys Ile Thr Ser			
225	230	235	240

出証特 2 0 0 4 - 3 0 5 9 6 6 1

	85		90		95										
Arg	Ala	Leu	Ala	Ser	Ser	Leu	Ser	Ser	Asn	Pro	Tyr	Val	Lys	Arg	Leu
	100		105		110										
Asp	Leu	Arg	Asp	Asn	Gly	Leu	Cys	Gly	Ala	Gly	Ala	Glu	Ala	Leu	Ala
	115		120		125										
Gly	Ala	Leu	Ser	Lys	Ser	Ser	Ser	Ile	His	Gly	Arg	Cys	Trp	Val	Trp
	130		135		140										
Gly	Arg	Trp	Ala	Gly	Val	Ser	Ser	Phe	Ser	Ser	Gly	Met	Cys	Leu	His
	145		150		155										
Arg															

<210> 3830

<211> 598

<212> PRT

<213> Homo sapiens

<400> 3830

Met	Asp	Leu	Leu	His	Lys	Asn	Met	Lys	His	Leu	Trp	Phe	Phe	Leu	Leu
1				5						10				15	
Leu	Val	Ala	Ala	Pro	Arg	Trp	Gly	Leu	Ser	Gln	Val	Arg	Leu	Gln	Gln
				20				25					30		
Trp	Gly	Thr	Gly	Val	Leu	Lys	Pro	Ser	Glu	Thr	Leu	Ser	Leu	Thr	Cys
			35				40					45			
Ala	Val	Ile	Gly	Gly	Ser	Phe	Ser	Asp	Tyr	Ser	Phe	Thr	Trp	Val	Arg
		50				55						60			
Arg	Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile	Gly	Glu	Val	Gln	Arg	Gly
		65				70				75				80	

出証特 2 0 0 4 - 3 0 5 9 6 6 1

305 310 315 320
Trp Leu Arg Asp Lys Ala Thr Phe Thr Cys Phe Val Val Gly Ser Asp
 325 330 335
Leu Lys Asp Ala His Leu Thr Trp Glu Val Ala Gly Lys Val Pro Thr
 340 345 350
Gly Gly Val Glu Glu Gly Leu Leu Glu Arg His Ser Asn Gly Ser Gln
 355 360 365
Ser Gln His Ser Arg Leu Thr Leu Pro Arg Ser Leu Trp Asn Ala Gly
 370 375 380
Thr Ser Val Thr Cys Thr Leu Asn His Pro Ser Leu Pro Pro Gln Arg
385 390 395 400
Leu Met Ala Leu Arg Glu Pro Gly Glu Pro Gly Ser Gln Val Gly Arg
 405 410 415
Arg Gly Cys Pro Gln Pro Ala Asp Pro Tyr Ala Cys Pro Arg Ala Met
 420 425 430
Thr Pro Ala Gly Pro Gln Gln His Arg Ser Ser Ser Thr Gly Lys Glu
 435 440 445
Lys Gly Gly Thr Ser Thr Leu Ala Gly Pro Thr Ser Leu Pro Val Pro
 450 455 460
Pro Trp Pro Glu Ala Asp Ser Leu Pro His Leu Pro Ala Ala Ala Gln
465 470 475 480
Ala Pro Val Lys Leu Ser Leu Asn Leu Leu Ala Ser Ser Asp Pro Pro
 485 490 495
Glu Ala Ala Ser Trp Leu Leu Cys Glu Val Ser Gly Phe Ser Pro Pro
 500 505 510
Asn Ile Leu Leu Met Trp Leu Glu Asp Gln Arg Glu Val Asn Thr Ser
 515 520 525
Gly Phe Ala Pro Ala Arg Pro Pro Pro Gln Pro Gly Ser Thr Thr Phe
 530 535 540

Trp Ala Trp Ser Val Leu Arg Val Pro Ala Pro Pro Ser Pro Gln Pro
 545 550 555 560
 Ala Thr Tyr Thr Cys Val Val Ser His Glu Asp Ser Arg Thr Leu Leu
 565 570 575
 Asn Ala Ser Arg Ser Leu Glu Val Ser Cys Glu Ser Pro Pro Gly Pro
 580 585 590
 Gly Leu Gly Arg Gly Leu
 595

<210> 3831

<211> 1662

<212> PRT

<213> Homo sapiens

<400> 3831

Met Leu Leu Ser Ile Gln Arg Asn Leu Ala Ala Ala Trp Tyr Val Gln
 1 5 10 15
 Ile Pro Gly Met Glu Ile Lys Gly Lys Leu Lys Pro Met Gln Val Ala
 20 25 30
 Leu Ser Glu Asp Asp Leu Thr Val Leu Met Lys Ile Leu Leu Glu Asn
 35 40 45
 Leu Gly Glu Ala Ser Ser Gln Pro Ser Pro Thr Gln Ser Val Gln Glu
 50 55 60
 Thr Val Arg Val Arg Lys Val Asp Val Ser Ser Val Pro Asp His Leu
 65 70 75 80
 Lys Glu Gln Glu Asp Trp Thr Asp Ser Lys Leu Ser Met Asn Gln Ile
 85 90 95
 Val Ser Leu Gln Phe Asp Phe His Phe Glu Ser Leu Ser Ile Ile Leu

100	105	110	
Tyr Asn Asn Asp Ile Asn Gln Glu Ser Gly Val Ala Phe His Asn Asp			
115	120	125	
Ser Phe Gln Leu Gly Glu Leu Arg Leu His Leu Met Ala Ser Ser Gly			
130	135	140	
Lys Met Phe Lys Asp Gly Ser Met Asn Val Ser Val Lys Leu Lys Thr			
145	150	155	160
Cys Thr Leu Asp Asp Leu Arg Glu Gly Ile Glu Arg Ala Thr Ser Arg			
165	170	175	
Met Ile Asp Arg Lys Asn Asp Gln Asp Asn Asn Ser Ser Met Ile Asp			
180	185	190	
Ile Ser Tyr Lys Gln Asp Lys Asn Gly Ser Gln Ile Asp Ala Val Leu			
195	200	205	
Asp Lys Leu Tyr Val Cys Ala Ser Val Glu Phe Leu Met Thr Val Ala			
210	215	220	
Asp Phe Phe Ile Lys Ala Val Pro Gln Ser Pro Glu Asn Val Ala Lys			
225	230	235	240
Glu Thr Gln Ile Leu Pro Arg Gln Thr Ala Thr Gly Lys Val Lys Ile			
245	250	255	
Glu Lys Asp Asp Ser Val Arg Pro Asn Met Thr Leu Lys Ala Met Ile			
260	265	270	
Thr Asp Pro Gly Val Val Phe Val Ala Ser Leu Thr Lys Ala Asp Ala			
275	280	285	
Pro Ala Leu Thr Ala Ser Phe Gln Cys Asn Leu Ser Leu Ser Thr Ser			
290	295	300	
Lys Leu Glu Gln Met Met Glu Ala Ser Val Arg Asp Leu Lys Val Leu			
305	310	315	320
Ala Cys Pro Phe Leu Arg Glu Lys Arg Gly Lys Asn Ile Thr Thr Val			
325	330	335	

Leu Gln Pro Arg Ser Leu Phe Met Glu Lys Cys Thr Trp Ala Ser Gly
340 345 350
Lys Gln Asn Ile Asn Ile Met Val Lys Glu Phe Ile Ile Lys Ile Ser
355 360 365
Pro Ile Ile Leu Asn Thr Val Leu Thr Ile Met Ala Ala Leu Ser Pro
370 375 380
Lys Thr Lys Glu Asp Gly Ser Lys Asp Thr Ser Lys Glu Met Glu Asn
385 390 395 400
Leu Trp Gly Ile Lys Ser Ile Asn Asp Tyr Asn Thr Trp Phe Leu Gly
405 410 415
Val Asp Thr Ala Thr Glu Ile Thr Glu Ser Phe Lys Gly Ile Glu His
420 425 430
Ser Leu Ile Glu Glu Asn Cys Gly Val Val Val Glu Ser Ile Gln Val
435 440 445
Thr Leu Glu Cys Gly Leu Gly His Arg Thr Val Pro Leu Leu Leu Ala
450 455 460
Glu Ser Lys Phe Ser Gly Asn Ile Lys Asn Trp Thr Ser Leu Met Ala
465 470 475 480
Ala Val Ala Asp Val Thr Leu Gln Val His Tyr Tyr Asn Glu Ile His
485 490 495
Ala Val Trp Glu Pro Leu Ile Glu Arg Val Glu Gly Lys Arg Gln Trp
500 505 510
Asn Leu Arg Leu Asp Val Lys Lys Asn Pro Val Gln Asp Lys Ser Leu
515 520 525
Leu Pro Gly Asp Asp Phe Ile Pro Glu Pro Gln Met Ala Ile His Ile
530 535 540
Ser Ser Gly Asn Thr Met Asn Ile Thr Ile Ser Lys Ser Cys Leu Asn
545 550 555 560
Val Phe Asn Asn Leu Ala Lys Gly Phe Ser Glu Gly Thr Ala Ser Thr

565	570	575
Phe Asp Tyr Ser Leu Lys Asp Arg Ala Pro Phe Thr Val Lys Asn Ala		
580	585	590
Val Gly Val Pro Ile Lys Val Lys Pro Asn Cys Asn Leu Arg Val Met		
595	600	605
Gly Phe Pro Glu Lys Ser Asp Ile Phe Asp Val Asp Ala Gly Gln Asn		
610	615	620
Leu Glu Leu Glu Tyr Ala Ser Met Val Pro Ser Ser Gln Gly Asn Leu		
625	630	635
640		
Ser Ile Leu Ser Arg Gln Glu Ser Ser Phe Phe Thr Leu Thr Ile Val		
645	650	655
Pro His Gly Tyr Thr Glu Val Ala Asn Ile Pro Val Ala Arg Pro Gly		
660	665	670
Arg Arg Leu Tyr Asn Val Arg Asn Pro Asn Ala Ser His Ser Asp Ser		
675	680	685
Val Leu Val Gln Ile Asp Ala Thr Glu Gly Asn Lys Val Ile Thr Leu		
690	695	700
Arg Ser Pro Leu Gln Ile Lys Asn His Phe Ser Ile Ala Phe Ile Ile		
705	710	715
720		
Tyr Lys Phe Val Lys Asn Val Lys Leu Leu Glu Arg Ile Gly Ile Ala		
725	730	735
Arg Pro Glu Glu Glu Phe His Val Pro Leu Asp Ser Tyr Arg Cys Gln		
740	745	750
Leu Phe Ile Gln Pro Ala Gly Ile Leu Glu His Gln Tyr Lys Glu Ser		
755	760	765
Thr Thr Tyr Ile Ser Trp Lys Glu Glu Leu His Arg Ser Arg Glu Val		
770	775	780
Arg Cys Met Leu Gln Cys Pro Ser Val Glu Val Ser Phe Leu Pro Leu		
785	790	795
800		

Ile Val Asn Thr Val Ala Leu Pro Asp Glu Leu Ser Tyr Ile Cys Thr			
	805	810	815
His Gly Glu Asp Trp Asp Val Ala Tyr Ile Ile His Leu Tyr Pro Ser			
	820	825	830
Leu Thr Leu Arg Asn Leu Leu Pro Tyr Ser Leu Arg Tyr Leu Leu Glu			
	835	840	845
Gly Thr Ala Glu Thr His Glu Leu Ala Glu Gly Ser Thr Ala Asp Val			
	850	855	860
Leu His Ser Arg Ile Ser Gly Glu Ile Met Glu Leu Val Leu Val Lys			
	865	870	875
			880
Tyr Gln Gly Lys Asn Trp Asn Gly His Phe Arg Ile Arg Asp Thr Leu			
	885	890	895
Pro Glu Phe Phe Pro Val Cys Phe Ser Ser Asp Ser Thr Glu Val Thr			
	900	905	910
Thr Val Asp Leu Ser Val His Val Arg Arg Ile Gly Ser Arg Met Val			
	915	920	925
Leu Ser Val Phe Ser Pro Tyr Trp Leu Ile Asn Lys Thr Thr Arg Val			
	930	935	940
Leu Gln Tyr Arg Ser Glu Asp Ile His Val Lys His Pro Ala Asp Phe			
	945	950	955
			960
Arg Asp Ile Ile Leu Phe Ser Phe Lys Lys Lys Asn Ile Phe Thr Lys			
	965	970	975
Asn Lys Val Gln Leu Lys Ile Ser Thr Ser Ala Trp Ser Ser Ser Phe			
	980	985	990
Ser Leu Asp Thr Val Gly Ser Tyr Gly Cys Val Lys Cys Pro Ala Asn			
	995	1000	1005
Asn Met Glu Tyr Leu Val Gly Val Ser Ile Lys Met Ser Ser Phe Asn			
	1010	1015	1020
Leu Ser Arg Ile Val Thr Leu Thr Pro Phe Cys Thr Ile Ala Asn Lys			

1025 1030 1035 1040
Ser Ser Leu Glu Leu Glu Val Gly Glu Ile Ala Ser Asp Gly Ser Met
 1045 1050 1055
Pro Thr Asn Lys Trp Asn Tyr Ile Ala Ser Ser Glu Cys Leu Pro Phe
 1060 1065 1070
Trp Pro Glu Asn Leu Ser Gly Lys Leu Cys Val Arg Val Val Gly Cys
 1075 1080 1085
Glu Gly Ser Ser Lys Pro Phe Phe Tyr Asn Arg Gln Asp Asn Gly Thr
 1090 1095 1100
Leu Leu Ser Leu Glu Asp Leu Asn Gly Gly Ile Leu Val Asp Val Asn
1105 1110 1115 1120
Thr Ala Glu His Ser Thr Val Ile Thr Phe Ser Asp Tyr His Glu Gly
 1125 1130 1135
Ser Ala Pro Ala Leu Ile Met Asn His Thr Pro Trp Asp Ile Leu Thr
 1140 1145 1150
Tyr Lys Gln Ser Gly Ser Pro Glu Glu Met Val Leu Leu Pro Arg Gln
 1155 1160 1165
Ala Arg Leu Phe Ala Trp Ala Asp Pro Thr Gly Thr Arg Lys Leu Thr
 1170 1175 1180
Trp Thr Tyr Ala Ala Asn Val Gly Glu His Asp Leu Leu Lys Asp Gly
1185 1190 1195 1200
Cys Gly Gln Phe Pro Tyr Asp Ala Asn Ile Gln Ile His Trp Val Ser
 1205 1210 1215
Phe Leu Asp Gly Arg Gln Arg Val Leu Leu Phe Thr Asp Asp Val Ala
 1220 1225 1230
Leu Val Ser Lys Ala Leu Gln Ala Glu Glu Met Glu Gln Ala Asp Tyr
 1235 1240 1245
Glu Ile Thr Leu Ser Leu His Ser Leu Gly Leu Ser Leu Val Asn Asn
 1250 1255 1260

Glu Ser Lys Gln Glu Val Ser Tyr Ile Gly Ile Thr Ser Ser Gly Val
1265 1270 1275 1280
Val Trp Glu Val Lys Pro Lys Gln Lys Trp Lys Pro Phe Ser Gln Lys
1285 1290 1295
Gln Ile Ile Leu Leu Glu Gln Ser Tyr Gln Lys His Gln Ile Ser Arg
1300 1305 1310
Asp His Gly Trp Ile Lys Leu Asp Asn Asn Phe Glu Val Asn Phe Asp
1315 1320 1325
Lys Asp Pro Met Glu Met Arg Leu Pro Ile Arg Ser Pro Ile Lys Arg
1330 1335 1340
Asp Phe Leu Ser Gly Ile Gln Ile Glu Phe Lys Gln Ser Ser His Gln
1345 1350 1355 1360
Arg Ser Leu Arg Ala Arg Leu Tyr Trp Leu Gln Val Asp Asn Gln Leu
1365 1370 1375
Pro Gly Ala Met Phe Pro Val Val Phe His Pro Val Ala Pro Pro Lys
1380 1385 1390
Ser Ile Ala Leu Asp Ser Glu Pro Lys Pro Phe Ile Asp Val Ser Val
1395 1400 1405
Ile Thr Arg Phe Asn Glu Tyr Ser Lys Val Leu Gln Phe Lys Tyr Phe
1410 1415 1420
Met Val Leu Ile Gln Glu Met Ala Leu Lys Ile Asp Gln Gly Phe Leu
1425 1430 1435 1440
Gly Ala Ile Ile Ala Leu Phe Thr Pro Thr Thr Asp Pro Glu Ala Glu
1445 1450 1455
Arg Arg Arg Thr Lys Leu Ile Gln Gln Asp Ile Asp Ala Leu Asn Ala
1460 1465 1470
Glu Leu Met Glu Thr Ser Met Thr Asp Met Ser Ile Leu Ser Phe Phe
1475 1480 1485
Glu His Phe His Ile Ser Pro Val Lys Leu His Leu Ser Leu Ser Leu

1490	1495	1500
Gly Ser Gly Gly Glu Glu Ser Asp Lys Glu Lys Gln Glu Met Phe Ala		
1505	1510	1515
Val His Ser Val Asn Leu Leu Leu Lys Ser Ile Gly Ala Thr Leu Thr		
1525	1530	1535
Asp Val Asp Asp Leu Ile Phe Lys Leu Ala Tyr Tyr Glu Ile Arg Tyr		
1540	1545	1550
Gln Phe Tyr Lys Arg Asp Gln Leu Ile Trp Ser Val Val Arg His Tyr		
1555	1560	1565
Ser Glu Gln Phe Leu Lys Gln Met Tyr Val Leu Val Leu Gly Leu Asp		
1570	1575	1580
Val Leu Gly Asn Pro Phe Gly Leu Ile Arg Gly Leu Ser Glu Gly Val		
1585	1590	1595
Glu Ala Leu Phe Tyr Glu Pro Phe Gln Gly Ala Val Gln Gly Pro Glu		
1605	1610	1615
Glu Phe Ala Glu Gly Leu Val Ile Gly Val Arg Ser Leu Phe Gly His		
1620	1625	1630
Thr Val Gly Gly Ala Ala Gly Val Val Ser Arg Ile Thr Gly Ser Val		
1635	1640	1645
Gly Lys Gly Leu Ala Ala Ile Thr Met Asp Lys Glu Tyr Gln		
1650	1655	1660

<210> 3832

<211> 1054

<212> PRT

<213> Homo sapiens

<400> 3832

Met Ala Arg Asp Thr Asn Ser Gly Ser Ser Ser Ser Gln Gln Asn Tyr
 1 5 10 15
 Gly Leu Arg Ala Lys Arg Lys Val Arg Tyr Ser Glu Asp Tyr Leu Tyr
 20 25 30
 Asp Val Asp Ser Leu Glu Gly Glu Lys Val Asn Glu Arg Lys Glu Trp
 35 40 45
 Leu Pro Val Gly Ser Lys Glu Glu Asp Asp Asp Glu Trp Cys Pro Lys
 50 55 60
 Lys Arg Arg Lys Val Thr Arg Lys Glu Pro Pro Val Ile Ile Lys Tyr
 65 70 75 80
 Ile Ile Ile Asn Arg Phe Lys Gly Glu Lys Asn Met Leu Val Lys Leu
 85 90 95
 Gly Lys Val Asp Ala Ser Glu Thr Thr Val Asn Leu Ser Glu Asn Gln
 100 105 110
 Leu Asn Lys Tyr Ala Lys Leu Ala Pro Leu Lys Gly Phe Trp Gln Lys
 115 120 125
 Lys Lys Lys Gln Arg Asn Thr Asn Thr Asp Ser Ile Lys Thr Pro Phe
 130 135 140
 Ser Gln Lys Gln Ser Phe Glu Pro Gly Ser Phe Glu Val Ser Phe Leu
 145 150 155 160
 Pro Pro Ala Arg Lys Arg Lys Ser Lys Leu Gly Asn Arg His Arg Ile
 165 170 175
 Gln Arg Ile Pro Ser Ile Glu Ile Ser Ala Ser Ser Lys Gln Ile Ser
 180 185 190
 Leu Cys Asn Asp Gln Arg His Ala Ser Asn His Lys Glu Asp Gly Gly
 195 200 205
 Leu Lys Gly Thr Leu Lys Ser Ala Pro Leu Gly Ala Pro Ser Cys Ala
 210 215 220
 Asn Gly Ser His Leu Asn Asp Ile Thr Gly Pro Asp Ser Val Lys Val

出証特 2 0 0 4 - 3 0 5 9 6 6 1

Asn Leu Thr Pro Thr Thr Tyr Asn Pro Ile Cys Leu Asn Ser Gly Gly
465 470 475 480
Ser Asn Cys Asn Lys Val Leu Tyr Asp Ser Met Gln Asp Thr Gln Leu
485 490 495
Pro Ser Asp Asp Ser Tyr Gln Leu Cys His Phe Asn Asn Gly Glu Ile
500 505 510
Cys Phe Pro Phe Gln Gln Gly Pro Val Asn Met Asp Asp Gly Arg Leu
515 520 525
Phe Ser Phe Asp Ser Met Ala Pro Leu Ser Val Ser Ser Ser Asn Tyr
530 535 540
Cys Ser Leu Ser Leu Lys Ser Cys Glu Lys Asp Gly Asp Asp Asp Ile
545 550 555 560
Thr Asp Asp Phe Leu Ala His Cys Ser Pro Lys Leu Val Ile Gln Gln
565 570 575
Ser Ile Asp Glu Ile Ala Pro Leu Lys Glu Ser Thr Asp Leu Leu Asp
580 585 590
Ile Ser Asn Phe Thr Pro Asp Lys Phe Arg His Ser Ser Leu Ser Glu
595 600 605
Met Ser Pro Pro Asp Thr Pro Ser Leu Ser Pro Gln Ile Thr Arg Cys
610 615 620
Glu Ser Met Lys Thr Leu Gly Thr Leu Lys Gly Phe Gln Glu Gly Val
625 630 635 640
Pro Gly Pro Leu Asp Ser Val Glu Lys Ile Lys Trp Asp Cys Ser Thr
645 650 655
Leu Ser Arg Gln Val Gln Met Glu Asp Gly Phe Thr Leu Asn Asn His
660 665 670
Gln Phe Gln Phe His Met Phe Asn Asp Glu Asp Ser Val Ser Leu Leu
675 680 685
Gln Lys Asn Pro Cys Leu Ser Thr Phe Asn Asp Pro Ser Gly Gln Ile

690 695 700
Ser Thr Asn Asn Lys Val Ser Lys Ser Arg Lys Lys Ser Ser Pro Ser
705 710 715 720
Lys Ser Gly Ala Met Asn Gln Ser Ser Ser Gln Lys Asn Thr Arg Lys
 725 730 735
Lys Ser Leu Lys Gly Asn Asn Lys Gly Ile Glu Lys Pro Pro Gly Lys
 740 745 750
Asn Ser Arg Gln Val Pro Lys Ser Thr Lys Lys Gly Lys Tyr Met Ala
 755 760 765
Ala Ile Asn Gly Glu Lys Met Gln Ile Gly Ile Gly Arg Gly Gly Ser
770 775 780
Gln Thr Asn Thr Ile Ser Ser Thr Gly Lys Thr Leu Ala Glu Cys Ile
785 790 795 800
Gln His Gly Gly Pro Met Ala Ser Met Lys Met Pro Ser Gln Lys Gly
 805 810 815
Leu Ser Gly Asp Trp Ala Leu Gly Lys Glu Ser Ser Pro Gly Trp Ser
 820 825 830
Asp Met Ser Met Gly Thr Asn Thr Asn Ser Leu Leu Asp Asp Asp Gln
 835 840 845
Arg Glu Phe Gln Glu Pro Ser Tyr Ile Leu Ser Asn Ile Ala Ser Gly
850 855 860
Met Ala Asp Val Gln Arg Phe Met Met Ala Ser Ile Glu Pro Leu Trp
865 870 875 880
Glu Pro Met Glu His His Gly Asp Pro Asn Ile Phe Tyr Ser Pro Glu
 885 890 895
Ser Asn Ser Leu Lys Leu Lys Thr Leu Lys Ile Leu Ala Gly Thr Pro
 900 905 910
Gln Glu Ser Lys Lys Lys Ile Asn Ser Gly Ser Gln Gly Ala Thr Lys
 915 920 925

Asn His Arg Ser Ile Lys Gly Val Ser Lys Ser Asn Gly Lys Thr Ala

930

935

940

Ile Gly Asp Pro Gly Arg Ala Asn Met Pro Gly Tyr Asn Glu Asp Ser

945

950

955

960

Arg Ser Thr Phe Phe Asp Lys Lys Tyr Ser Asn Met Ser Thr Leu Gly

965

970

975

Asn Asn Gly Pro Thr His Lys Lys Leu Tyr Arg His Lys Ser Ser Ser

980

985

990

Lys Ala Leu Arg Asp Glu Lys Cys Lys Gly Lys His Met Glu Arg Glu

995

1000

1005

Gln Val His Lys Asp Glu Ser Gly Thr Ala Ser Phe Glu Lys Leu Arg

1010

1015

1020

Asp Ser Asp Tyr Asn Leu Leu Lys Ala Glu Thr Thr Phe Trp Val Leu

1025

1030

1035

1040

Pro Val Phe Glu Glu Glu Thr Arg Ile Phe Gln Lys Asp Ile

1045

1050

<210> 3833

<211> 158

<212> PRT

<213> Homo sapiens

<400> 3833

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Leu Arg Gly

1

5

10

15

Val Gln Cys Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg

20

25

30

Pro Gly Ala Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Phe

35	40	45
Lys Asp Tyr Val Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu		
50	55	60
Glu Trp Val Ala Val Ala Trp Asp Val Gly Ile Pro Ile His Tyr Ala		
65	70	75
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn		
85	90	95
Thr Leu Tyr Leu Gln Met Asp Ser Leu Lys Val Glu Asp Thr Ala Val		
100	105	110
Tyr Tyr Cys Val Arg Asp Trp Gly Asp Asp Asp Tyr Ser Ser Lys Tyr		
115	120	125
Tyr Tyr Tyr Thr Leu Asp Val Trp Gly Arg Gly Thr Thr Val Thr Val		
130	135	140
Ser Ser Ser Lys Ser Gly His Phe Arg Ala Phe Ile Leu Ser		
145	150	155

<210> 3834

<211> 150

<212> PRT

<213> Homo sapiens

<400> 3834

Met Ala Ser Glu Arg Leu Pro Asn Arg Pro Ala Cys Leu Leu Val Ala		
1	5	10
Ser Gly Ala Ala Glu Gly Val Ser Ala Gln Ser Phe Leu His Cys Phe		
20	25	30
Thr Met Ala Ser Thr Ala Phe Asn Leu Gln Val Ala Thr Pro Gly Gly		
35	40	45

Lys Ala Met Glu Phe Val Asp Val Thr Glu Ser Asn Ala Arg Trp Val
 50 55 60
 Gln Asp Phe Arg Leu Lys Ala Tyr Ala Ser Pro Ala Lys Leu Glu Ser
 65 70 75 80
 Ile Asp Glu Pro Ile Cys Ala Val Gly His Gly Val Ala Ala Leu Cys
 85 90 95
 Cys Ala Thr Asn Glu Asp Arg Ser Trp Val Phe Asp Ser Tyr Ser Leu
 100 105 110
 Thr Gly Gly Leu Gly Leu Ser Gln Glu Pro Pro Pro Arg Ser Arg Ser
 115 120 125
 Pro Leu Cys Val Ser Ser Ser Gly Pro Pro Ala Ser Pro Ala Cys Arg
 130 135 140
 Ser Trp Trp Arg Thr Ser
 145 150

<210> 3835

<211> 568

<212> PRT

<213> Homo sapiens

<400> 3835

Met Ala Gln Val Asp Ser Gln Asp Arg Trp Gly Glu Ala Ser Pro Leu
 1 5 10 15
 Ser Ser Leu Thr Glu Glu Ala His Asp Thr Gln Met Leu Ser Met Asn
 20 25 30
 Leu Glu Ser Asp Asp Glu Asp Gly Gly Glu Ala Glu Lys Glu Gly Thr
 35 40 45
 Ala Asp Pro Val Ala Cys Pro Arg Gly Ser Ser Pro Val Thr His Glu

50	55	60
Asn Pro Asp Leu Pro Trp Pro His Pro Leu Gly Lys Glu Glu Glu Lys		
65	70	75
Phe Ser Asp Ser Ser Ser Ala Gly Gly Met Gly Gln Lys Pro Val Glu		
85	90	95
Met Ser Gly Lys Ala Ser Trp Ser Arg Asp Val Thr Lys Ile Asn Glu		
100	105	110
Thr Gln Gly Ser Pro Gly Ala Ser Arg Ala Leu Gly Ser Leu Pro Ser		
115	120	125
Gly Leu Ala His Lys Leu Leu Gly Gln Met Gln Pro Leu Gly Asp Arg		
130	135	140
Leu Pro Ala Gly Asp Asp Gly Tyr Ser Gly Ala Asn Gln Asp Ala Val		
145	150	155
Leu Asp Val Pro Pro Ser Phe Pro Ser Asn Gly Lys Tyr Leu Cys Ala		
165	170	175
His Lys Ser Val Asp Thr Ser Ala Gly Asn Ser Ser Leu Leu Cys Phe		
180	185	190
Pro Arg Pro Gly Ser Asn Trp Asp Leu Pro Thr Gln Glu Thr His Thr		
195	200	205
Pro Ala Gln Ala Ser Ala Thr Pro Ala Ser Leu Ala Ala Ala Val Leu		
210	215	220
Ala Lys Ala Arg Asn Ser Arg Lys Val Gln Asn Gln Ala Gly Arg Arg		
225	230	235
Glu Gly Gly Glu Ala Glu Ala Arg Pro Tyr Arg Cys Leu Arg Gly Gly		
245	250	255
Arg Ala Phe Gln Lys Pro Ser Lys Pro Leu Ser Pro Ala Glu Thr Arg		
260	265	270
Gly Gly Ala Ala Lys Arg Tyr Ala Cys Glu Leu Cys Gly Lys Ala Tyr		
275	280	285

Ser His Arg Gly Thr Leu Gln Gln His Arg Arg Leu His Thr Gly Glu
 290 295 300
 Arg Pro Tyr Gln Cys Ser Phe Cys Asp Lys Ala Tyr Thr Trp Ser Ser
 305 310 315 320
 Asp His Arg Lys His Ile Arg Thr His Thr Gly Glu Lys Pro Tyr Pro
 325 330 335
 Cys Pro Asp Cys Gly Lys Ala Phe Val Arg Ser Ser Asp Leu Arg Lys
 340 345 350
 His Gln Arg Asn Met His Ser Asn Asn Lys Pro Phe Pro Cys Ser Glu
 355 360 365
 Cys Gly Leu Thr Phe Asn Lys Pro Leu Ser Leu Leu Arg His Gln Arg
 370 375 380
 Thr His Leu Gly Ala Lys Pro Phe Arg Cys Pro Ala Cys Asp Arg Glu
 385 390 395 400
 Phe Ala Val Ala Ser Arg Met Val Glu His Gln Arg Val His Ser Gly
 405 410 415
 Glu Arg Pro Phe Pro Cys Pro Thr Cys Gly Lys Cys Phe Thr Lys Ser
 420 425 430
 Ser Asn Leu Ser Glu His Gln Thr Leu His Thr Gly Gln Arg Pro Phe
 435 440 445
 Lys Cys Ala Asp Cys Gly Val Ala Phe Ala Gln Pro Ser Arg Leu Val
 450 455 460
 Arg His Gln Arg Ile His Thr Gly Glu Arg Pro Phe Pro Cys Thr Gln
 465 470 475 480
 Cys Gly Gln Ala Phe Ala Arg Ser Ser Thr Leu Lys Arg His Gln Gln
 485 490 495
 Ile His Ser Gly Glu Lys Gly Phe Leu Cys Ala Glu Cys Gly Arg Ala
 500 505 510
 Phe Arg Ile Ala Ser Glu Leu Ala Gln His Ile Arg Met His Asn Gly

515 520 525
 Glu Arg Pro Tyr Gln Cys Glu Asp Cys Gly Gln Ala Phe Thr Arg Ser
 530 535 540
 Asn His Leu Gln Arg His Arg Ala Lys His Gly Thr Cys Lys Lys Glu
 545 550 555 560
 Pro Ile Pro Ser Ser Ser Asp Glu
 565

<210> 3836

<211> 115

<212> PRT

<213> Homo sapiens

<400> 3836

Met Glu Leu Leu Arg Cys Lys Lys Phe Phe Ile Phe Leu Phe Leu Asn
 1 5 10 15
 Phe Tyr Leu Arg Gln Gly Leu Ala Leu Ser Pro Arg Leu Glu Cys Ser
 20 25 30
 Gly Ala Ile Met Ala Arg Cys Gly Leu Asp Phe Leu Gly Ser Gly Val
 35 40 45
 Pro Pro Ile Ser Ala Ser Gln Val Ala Gly Ala Val Gly Ala Asp His
 50 55 60
 Asn Ala Trp Leu Ile Phe Tyr Phe Leu Phe Phe Leu Ser Arg Arg Val
 65 70 75 80
 Ser Leu Cys Cys Ser Gly Trp Ser Gln Thr Pro Lys Leu Lys Arg Ser
 85 90 95
 Ser Phe Leu Asp Leu Pro Lys Cys Trp Asp Cys Arg His Glu Pro Pro
 100 105 110

Cys Leu Ala

115

<210> 3837

<211> 253

<212> PRT

<213> Homo sapiens

<400> 3837

Met Trp Pro Ala Trp His Arg Cys Gly Ser His Trp Gln Glu Pro Ala

1

5

10

15

Pro Ala His Ala Leu His Ser Cys Gly Glu Leu Thr Ala Arg Pro Gly

20

25

30

Gly Ala Arg Gly Ala Gln Arg Pro Arg Ser Pro Leu Leu Arg Arg Ala

35

40

45

His Ser Gln Ala Lys Gly Arg Thr Trp Gly Pro Thr Pro Thr Leu Pro

50

55

60

Thr Pro Ala Glu Ser Ser Gln Pro Gly Gln Gly Ala His Val Gly Pro

65

70

75

80

Asn Ala His Thr Pro His Ser Cys Gly Glu Leu Thr Ala Arg Pro Arg

85

90

95

Gly Ala Arg Gly Ala Gln Arg Pro Arg Ser Pro Leu Leu Arg Arg Ala

100

105

110

His Ser Gln Ala Arg Gly Arg Thr Trp Gly Pro Thr Pro Thr Leu Pro

115

120

125

Thr Pro Ala Glu Ser Ser Gln Pro Gly Gln Gly Ala His Val Gly Pro

130

135

140

Asn Ala His Ala Pro His Ser Cys Gly Glu Leu Thr Ala Arg Pro Gly

145 150 155 160
 Gly Ala Arg Gly Ala Gln Arg Pro His Ser Pro Leu Leu Arg Arg Ala
 165 170 175
 His Ser Gln Ala Arg Gly Arg Thr Trp Gly Pro Thr Phe Arg Asn Lys
 180 185 190
 Val Ile Val Tyr Ser Phe Leu Phe Phe Leu Lys Ser Val Phe Leu Leu
 195 200 205
 Arg Thr Pro Asp Val Cys Gly Ser Glu Ala Gln Trp Ala Tyr Ser Tyr
 210 215 220
 Leu Thr Trp Gln Thr Trp Lys Trp Lys Leu Leu Cys Ile Thr Arg Ile
 225 230 235 240
 Ser Arg Ala Ser Ala Ser Cys Trp Pro Asp Arg Val Pro
 245 250

<210> 3838

<211> 191

<212> PRT

<213> Homo sapiens

<400> 3838

Met Lys Ser Phe Ile Thr Pro Gly Met Leu Asn Ser Pro Thr Leu Cys
 1 5 10 15
 Gln His Phe Val Gly Lys Ala Leu Lys Glu Pro Arg Asn Met Phe Ser
 20 25 30
 Thr Thr Tyr Ile Ile His Tyr Met Asp Asn Ile Val Leu Ala Thr Pro
 35 40 45
 Thr Asp Gln Val Leu Tyr Gln Leu Phe Arg Glu Ile Lys Trp Ala Leu
 50 55 60

Thr Lys Trp Asn Leu Lys Ile Ala Pro Glu Lys Val Gln Thr Thr Ser
 65 70 75 80
 Ser Tyr Gln Tyr Leu Asp Thr Thr Val Thr Glu Lys Ser Ile Gln Pro
 85 90 95
 Gln Lys Val Ala Leu Arg Lys Asn Lys Leu Gln Thr Leu Asn Asn Leu
 100 105 110
 Gly Asp Ile Asn Trp Leu Arg Pro Met Leu Gly Ile Ala Ser Tyr Gln
 115 120 125
 Leu Thr His Val Tyr Gln Thr Leu Gln Gly Asp Ser Ser Leu Asp Ser
 130 135 140
 Pro Arg Gln Leu Thr Lys Glu Ala Glu Ala Glu Leu Gln Leu Val Glu
 145 150 155 160
 Arg Cys Phe Ser Asn Asp Met Pro Pro Gly Tyr Asn His Lys Ser Leu
 165 170 175
 Trp Phe Cys Leu Phe Phe Leu Pro Pro Ile Leu His Gln Asp Phe
 180 185 190

<210> 3839

<211> 537

<212> PRT

<213> Homo sapiens

<400> 3839

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Leu Arg Gly
 1 5 10 15
 Val Gln Cys Gln Val Pro Leu Val Glu Ser Gly Gly Gly Val Val Gln
 20 25 30
 Pro Gly Lys Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Thr Phe

35	40	45
Arg Asn Asn Ala Phe His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu		
50	55	60
Glu Trp Val Ala Leu Ile Ser Asp Asp Ala Asn Glu Glu Phe Tyr Ala		
65	70	75
Asp Ser Val Arg Gly Arg Phe Ile Ile Ser Arg Asp Asn Ser Asn Asn		
85	90	95
Arg Leu Tyr Leu Gln Met Asn Gly Leu Arg Pro Glu Asp Ser Ala Val		
100	105	110
Tyr Phe Cys Ala Arg Asp Val Arg Asn Leu Phe Leu Val Thr Pro Arg		
115	120	125
Glu Asp Phe Phe Tyr Phe Tyr Gly Leu Asp Val Trp Gly Gln Gly Thr		
130	135	140
Thr Val Ser Ile Ser Ala Pro Thr Lys Ala Pro Asp Val Phe Pro Ile		
145	150	155
Ile Ser Gly Cys Arg His Pro Lys Asp Asn Ser Pro Val Val Leu Ala		
165	170	175
Cys Leu Ile Thr Gly Tyr His Pro Thr Ser Val Thr Val Thr Trp Tyr		
180	185	190
Met Gly Thr Gln Ser Gln Pro Gln Arg Thr Phe Pro Glu Ile Gln Arg		
195	200	205
Arg Asp Ser Tyr Tyr Met Thr Ser Ser Gln Leu Ser Thr Pro Leu Gln		
210	215	220
Gln Trp Arg Gln Gly Glu Tyr Lys Cys Val Val Gln His Thr Ala Ser		
225	230	235
Lys Ser Lys Lys Glu Ile Phe Arg Trp Pro Glu Ser Pro Lys Ala Gln		
245	250	255
Ala Ser Ser Val Pro Thr Ala Gln Pro Gln Ala Glu Gly Ser Leu Ala		
260	265	270

Lys Ala Thr Thr Ala Pro Ala Thr Thr Arg Asn Thr Gly Arg Gly Gly
275 280 285

Glu Glu Lys Lys Lys Glu Lys Glu Lys Glu Glu Gln Glu Glu Arg Glu
290 295 300

Thr Lys Thr Pro Glu Cys Pro Ser His Thr Gln Pro Leu Gly Val Tyr
305 310 315 320

Leu Leu Thr Pro Ala Val Gln Asp Leu Trp Leu Arg Asp Lys Ala Thr
325 330 335

Phe Thr Cys Phe Val Val Gly Ser Asp Leu Lys Asp Ala His Leu Thr
340 345 350

Trp Glu Val Ala Gly Lys Val Pro Thr Gly Gly Val Glu Glu Gly Leu
355 360 365

Leu Glu Arg His Ser Asn Gly Ser Gln Ser Gln His Ser Arg Leu Thr
370 375 380

Leu Pro Arg Ser Leu Trp Asn Ala Gly Thr Ser Val Thr Cys Thr Leu
385 390 395 400

Asn His Pro Ser Leu Pro Pro Gln Arg Leu Met Ala Leu Arg Glu Pro
405 410 415

Ala Ala Gln Ala Pro Val Lys Leu Ser Leu Asn Leu Leu Ala Ser Ser
420 425 430

Asp Pro Pro Glu Ala Ala Ser Trp Leu Leu Cys Glu Val Ser Gly Phe
435 440 445

Ser Pro Pro Asn Ile Leu Leu Met Trp Leu Gly Asp Gln Arg Glu Val
450 455 460

Asn Thr Ser Gly Phe Ala Pro Ala Arg Pro Pro Pro Gln Pro Arg Ser
465 470 475 480

Thr Thr Phe Trp Ala Trp Ser Val Leu Arg Val Pro Ala Pro Pro Ser
485 490 495

Pro Gln Pro Ala Thr Tyr Thr Cys Val Val Ser His Glu Asp Ser Arg

500 505 510
 Thr Leu Leu Asn Ala Ser Arg Ser Leu Glu Val Ser Cys Glu Ser Pro
 515 520 525
 Pro Gly Pro Gly Leu Gly Arg Gly Leu
 530 535

<210> 3840

<211> 965

<212> PRT

<213> Homo sapiens

<400> 3840

Met Ile Ile Pro Ser Leu Asp Gly Ala Leu Phe Gln Trp Asp Arg Asp
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 Arg Glu Ser Met Glu Thr Val Pro Phe Thr Val Glu Ser Leu Leu Glu
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 Ser Ser Tyr Lys Phe Gly Asp Asp Val Val Leu Val Gly Gly Lys Ser
 35 40 45
 Leu Thr Thr Tyr Gly Leu Ser Ala Tyr Ser Gly Lys Val Arg Tyr Ile
 50 55 60
 Cys Ser Ala Leu Gly Cys Arg Gln Trp Asp Ser Asp Glu Met Glu Gln
 65 70 75 80
 Glu Glu Asp Ile Leu Leu Leu Gln Arg Thr Gln Lys Thr Val Arg Ala
 85 90 95
 Val Gly Pro Arg Ser Gly Asn Glu Lys Trp Asn Phe Ser Val Gly His
 100 105 110
 Phe Glu Leu Arg Tyr Ile Pro Asp Met Glu Thr Arg Ala Gly Phe Ile
 115 120 125

Glu Ser Thr Phe Lys Pro Asn Glu Asn Thr Glu Glu Ser Lys Ile Ile
 130 135 140
 Ser Asp Val Glu Glu Gln Glu Ala Ala Ile Met Asp Ile Val Ile Lys
 145 150 155 160
 Val Ser Val Ala Asp Trp Lys Val Met Ala Phe Ser Lys Lys Gly Gly
 165 170 175
 His Leu Glu Trp Glu Tyr Gln Phe Cys Thr Pro Ile Ala Ser Ala Trp
 180 185 190
 Leu Leu Lys Asp Gly Lys Val Ile Pro Ile Ser Leu Phe Asp Asp Thr
 195 200 205
 Ser Tyr Thr Ser Asn Asp Asp Val Leu Glu Asp Glu Glu Asp Ile Val
 210 215 220
 Glu Ala Ala Arg Gly Ala Thr Glu Asn Ser Val Tyr Leu Gly Met Tyr
 225 230 235 240
 Arg Gly Gln Leu Tyr Leu Gln Ser Ser Val Arg Ile Ser Glu Lys Phe
 245 250 255
 Pro Ser Ser Pro Lys Ala Leu Glu Ser Val Thr Asn Glu Asn Ala Ile
 260 265 270
 Ile Pro Leu Pro Thr Ile Lys Trp Lys Pro Leu Ile His Ser Pro Ser
 275 280 285
 Arg Thr Pro Val Leu Val Gly Ser Asp Glu Phe Asp Lys Cys Leu Ser
 290 295 300
 Asn Asp Lys Phe Ser His Glu Glu Tyr Ser Asn Gly Ala Leu Ser Ile
 305 310 315 320
 Leu Gln Tyr Pro Tyr Asp Asn Gly Tyr Tyr Leu Pro Tyr Tyr Lys Arg
 325 330 335
 Glu Arg Asn Lys Arg Ser Thr Gln Ile Thr Val Arg Phe Leu Asp Asn
 340 345 350
 Pro His Tyr Asn Lys Asn Ile Arg Lys Lys Asp Pro Val Leu Leu Leu

355 360 365
His Trp Trp Lys Glu Ile Val Ala Thr Ile Leu Phe Cys Ile Ile Ala
370 375 380
Thr Thr Phe Ile Val Arg Arg Leu Phe His Pro His Pro His Arg Gln
385 390 395 400
Arg Lys Glu Ser Glu Thr Gln Cys Gln Thr Glu Asn Lys Tyr Asp Ser
405 410 415
Val Ser Gly Glu Ala Asn Asp Ser Ser Trp Asn Asp Ile Lys Asn Ser
420 425 430
Gly Tyr Ile Ser Arg Tyr Leu Thr Asp Phe Glu Pro Ile Gln Cys Leu
435 440 445
Gly Arg Gly Gly Phe Gly Val Val Phe Glu Ala Lys Asn Lys Val Asp
450 455 460
Asp Cys Asn Tyr Ala Ile Lys Arg Ile Arg Leu Pro Asn Arg Glu Leu
465 470 475 480
Ala Arg Glu Lys Val Met Arg Glu Val Lys Ala Leu Ala Lys Leu Glu
485 490 495
His Pro Gly Ile Val Arg Tyr Phe Asn Ala Trp Leu Glu Ala Pro Pro
500 505 510
Glu Lys Trp Gln Glu Lys Met Asp Glu Ile Trp Leu Lys Asp Glu Ser
515 520 525
Thr Asp Trp Pro Leu Ser Ser Pro Ser Pro Met Asp Ala Pro Ser Val
530 535 540
Lys Ile Arg Arg Met Asp Pro Phe Ser Thr Lys Glu His Ile Glu Ile
545 550 555 560
Ile Ala Pro Ser Pro Gln Arg Ser Arg Ser Phe Ser Val Gly Ile Ser
565 570 575
Cys Asp Gln Thr Ser Ser Ser Glu Ser Gln Phe Ser Pro Leu Glu Phe
580 585 590

Ser Gly Met Asp His Glu Asp Ile Ser Glu Ser Val Asp Ala Ala Tyr
595 600 605
Asn Leu Gln Asp Ser Cys Leu Thr Asp Cys Asp Val Glu Asp Gly Thr
610 615 620
Met Asp Gly Asn Asp Glu Gly His Ser Phe Glu Leu Cys Pro Ser Glu
625 630 635 640
Ala Ser Pro Tyr Val Arg Ser Arg Glu Arg Thr Ser Ser Ser Ile Val
645 650 655
Phe Glu Asp Ser Gly Cys Asp Asn Ala Ser Ser Lys Glu Glu Pro Lys
660 665 670
Thr Asn Arg Leu His Ile Gly Asn His Cys Ala Asn Lys Leu Thr Ala
675 680 685
Phe Lys Pro Thr Ser Ser Lys Ser Ser Ser Glu Ala Thr Leu Ser Ile
690 695 700
Ser Pro Pro Arg Pro Thr Thr Leu Ser Leu Asp Leu Thr Lys Asn Thr
705 710 715 720
Thr Glu Lys Leu Gln Pro Ser Ser Pro Lys Val Tyr Leu Tyr Ile Gln
725 730 735
Met Gln Leu Cys Arg Lys Glu Asn Leu Lys Asp Trp Met Asn Gly Arg
740 745 750
Cys Thr Ile Glu Glu Arg Glu Arg Ser Val Cys Leu His Ile Phe Leu
755 760 765
Gln Ile Ala Glu Ala Val Glu Phe Leu His Ser Lys Gly Leu Met His
770 775 780
Arg Asp Leu Lys Pro Ser Asn Ile Phe Phe Thr Met Asp Asp Val Val
785 790 795 800
Lys Val Gly Asp Phe Gly Leu Val Thr Ala Met Asp Gln Asp Glu Glu
805 810 815
Glu Gln Thr Val Leu Thr Pro Met Pro Ala Tyr Ala Arg His Thr Gly

820	825	830
Gln Val Gly Thr Lys Leu Tyr Met Ser Pro Glu Gln Ile His Gly Asn		
835	840	845
Ser Tyr Ser His Lys Val Asp Ile Phe Ser Leu Gly Leu Ile Leu Phe		
850	855	860
Glu Leu Leu Tyr Pro Phe Ser Thr Gln Met Glu Arg Val Arg Thr Leu		
865	870	875
880		
Thr Asp Val Arg Asn Leu Lys Phe Pro Pro Leu Phe Thr Gln Lys Tyr		
885	890	895
Pro Cys Glu Tyr Val Met Val Gln Asp Met Leu Ser Pro Ser Pro Met		
900	905	910
Glu Arg Pro Glu Ala Ile Asn Ile Ile Glu Asn Ala Val Phe Glu Asp		
915	920	925
Leu Asp Phe Pro Gly Lys Thr Val Leu Arg Gln Arg Ser Arg Ser Leu		
930	935	940
Ser Ser Ser Gly Thr Lys His Ser Arg Gln Ser Asn Asn Ser His Ser		
945	950	955
960		
Pro Leu Pro Ser Asn		
965		

<210> 3841

<211> 453

<212> PRT

<213> Homo sapiens

<400> 3841

Met Glu Thr Arg Gly Pro Gly Leu Ala Val Arg Ala Glu Ser Arg Arg

1

5

10

15